



School of Arts & Sciences, Graduate Studies

2026–27

Bulletin

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About This Bulletin

The graduate and professional *Bulletins* are the catalogs of programs, degree requirements, courses that may be offered and course descriptions, pertinent university policies, and faculty of the following schools of Washington University in St. Louis: Architecture & Urban Design; Art; Arts & Sciences; Business; Engineering; Law; Medicine; Public Health; and Social Work & Social Policy.

The *WashU Continuing & Professional Studies Bulletin* is the catalog for WashU Continuing & Professional Studies (CAPS), the professional and continuing education division at Washington University in St. Louis. The catalog includes programs, degree requirements, course descriptions, and pertinent university policies for students earning a degree or taking courses through CAPS.

The 2026-27 *Bulletin* is entirely online but may be downloaded in PDF format for printing. Individual pages as well as information from individual tabs may be downloaded in PDF format using the PDF icon in the top right corner of each page. To download the full PDF, please choose from the following:

- Architecture & Urban Design Bulletin (PDF) (*to come*)
- Art Bulletin (PDF) (*to come*)
- Arts & Sciences Bulletin (PDF) (*to come*)
- Business Bulletin (PDF) (*to come*)
- Engineering Bulletin (PDF) (*to come*)
- Law Bulletin (PDF) (*to come*)
- Medicine Bulletin (PDF) (*to come*)
- Public Health Bulletin (PDF) (*to come*)
- Social Work & Social Policy Bulletin (PDF) (*to come*)
- School of Continuing & Professional Studies Bulletin (undergraduate & graduate) (PDF) (*to come*)

The degree requirements and policies listed in the 2026-27 *Bulletin* apply to students entering Washington University during the 2026-27 academic year. For more information, please visit the Catalog Editions (p. 10) page.

Every effort is made to ensure that the information, applicable key policies, and other materials presented in the *Bulletin* are accurate and correct as of the date of publication (July 1, 2026). To view a list of changes that have taken place after that date, visit the Program & Policy Updates page. Please note that the *Bulletin* highlights key university policies applicable to its students. Not all applicable university and departmental policies are included here.

Washington University reserves the right to make changes at any time without prior notice to the *Bulletin* and to university policies. Therefore, the electronic version of the *Bulletin* as published online is considered the official, governing document, and it may change from time to time without notice.

The next edition of the *Bulletin* will be published on July 1, 2027. Midyear changes to current courses (titles, descriptions, and credit units) are not reflected in this *Bulletin*. For more information about determining the appropriate edition of the *Bulletin* to consult, please visit the Catalog Editions page (p. 10) in the About This Bulletin section.

For the most current information about registration, visit the Plan for Next Semester Overview page of the Workday@WashU website. To view current semester course listings, consult the Class Schedule Search on the Office of the University Registrar website.

Degree progress is monitored in Workday based on program requirements as published in the *Bulletin* in the year of the student's matriculation. Students are responsible for reviewing their academic progress for accuracy and remaining credential requirements. Questions about degree requirements and course applicability should be directed to advisors.

Please email the Bulletin editor (bulletin@wustl.edu), Jennifer Etling Gann, with any questions concerning the *Bulletin*.

Bulletin Policies

Policies related to this catalog include the following:

Changes to the Bulletin

Every effort is made to ensure that the information, policies and other materials presented in the *Bulletin* are accurate and correct as of the date of publication. For more information about the content review process for the *Bulletin*, please visit the Catalog Editions page (p. 10).

The *Bulletin* for the upcoming academic year is published annually on July 1, and certain post-publication changes may be made until October 1. To view a list of changes that have taken place after the July 1 publication date, please visit the Program & Policy Updates page.

Washington University reserves the right to make changes at any time without prior notice. Therefore, the electronic version of the *Bulletin* and the policies set forth therein may change from time to time without notice. The governing document at any given time is the then-current version of the *Bulletin*, as published online, and then-currently applicable policies and information are those contained in that *Bulletin*.

Discontinued Programs

Students enrolled in programs that discontinue admitting new students during their tenure are expected to meet degree requirements published in the *Bulletin* and in place during their year of matriculation. If a program's requirements change, a student may request to change to a subsequent version effective during their enrollment, which is subject to approval by their school. Students who leave the university may not be allowed to return to a discontinued program depending on the time frame the university has established that the program will teach out remaining students.

Students are held to other policies in effect and as published for the current academic year.

For more information, please visit the Prior Bulletins page (p. 10).

Year of Matriculation

Students are expected to meet degree requirements published in the *Bulletin* and in place during their year of matriculation. If a program's requirements change, a student may request to change to a subsequent version effective during their enrollment, which is subject to approval by their school.

For more information, please visit the Catalog Editions page (p. 10).

Course Numbering

Washington University adopted a new course labeling structure in Fall 2025. The first part is the subject code indicating the area of study: for example, ANTHRO for Anthropology or MEMS for Mechanical Engineering and Materials Science. The second part is a four-digit course number. Course numbers demonstrate a progression of difficulty and/or depth in coursework.

- 1000 to 1999 indicates an introductory undergraduate course, usually without prerequisites.
- 2000 to 2999 indicates an introductory or intermediate undergraduate course, sometimes with prerequisites.
- 3000 to 3999 indicates an upper-level undergraduate course, often with a prerequisite of a prior course or class standing (e.g., junior standing).
- 4000 to 4999 indicates an undergraduate course or seminar with advanced content, in which a graduate student may be eligible to register.
- 5000 to 9999 indicates a graduate course, in which advanced undergraduates may request to register.

The presence of a course in this *Bulletin* signifies that it is part of the curriculum currently offered and may be scheduled for registration.

Curriculum Designators

The subject codes shown below are used in Washington University's course records and are listed here alphabetically.

A

Code	Name
AAS	Asian American Studies
ACCT	Accounting
AFAS	African & African American Studies
AHBR	Applied Health Behavior Research
AMCS	American Culture Studies
ANESTH	Anesthesiology
ANTHRO	Anthropology
APL	Applied Linguistics
ARAB	Arabic
ARC	Archaeology
ARCH	Architecture
ART	Art
ARTARCH	Art History & Archaeology
ASGS	Arts & Sciences Graduate Studies

B

Code	Name
BBS	Biology & Biomedical Sciences
BDSAI	Biomedical Data Science and AI
BEYOND	Beyond Boundaries
BIOCHEM	Biochemistry & Molecular Biophysics
BIOL	Biology & Biomedical Sciences
BME	Biomedical Engineering
BMI	Biomedical Informatics
BSDC	Brown School Doctoral

C

Code	Name
CAPS-AFAS	CAPS - African & African American Studies
CAPS-AMCS	CAPS - American Culture Studies
CAPS-ANTHRO	CAPS - Anthropology
CAPS-ARAB	CAPS - Arabic
CAPS-ART	CAPS - Art
CAPS-ARTARCH	CAPS - Art History & Archaeology
CAPS-BIO	CAPS - Biology
CAPS-BUS	CAPS - Business
CAPS-CHEM	CAPS - Chemistry
CAPS-CHINESE	CAPS - Chinese
CAPS-CIM	CAPS - Computers & Information Management



CAPS-CLASSICS	CAPS - Classics
CAPS-COMM	CAPS - Communications
CAPS-COMPLIT	CAPS - Comparative Literature
CAPS-CRM	CAPS - Clinical Research Management
CAPS-CS	CAPS - Computer Science
CAPS-DANCE	CAPS - Dance & Somatic Movement Studies
CAPS-DATASTUDIES	CAPS - Data Studies
CAPS-DRAMA	CAPS - Drama
CAPS-EASIA	CAPS - East Asian Studies
CAPS-ECOMP	CAPS - English Composition
CAPS-ECON	CAPS - Economics
CAPS-EDUC	CAPS - Education
CAPS-ELIT	CAPS - English & American Literature
CAPS-ELP	CAPS - English Language Programs
CAPS-EPSC	CAPS - Earth & Planetary Sciences
CAPS-FILM	CAPS - Film & Media Studies
CAPS-FR	CAPS - French
CAPS-GERMAN	CAPS - Germanic Languages & Literatures
CAPS-GIS	CAPS - Geographic Information Systems
CAPS-GS	CAPS - General Studies
CAPS-HCARE	CAPS - Health Care
CAPS-HEBR	CAPS - Hebrew
CAPS-HINDI	CAPS - Hindi
CAPS-HIST	CAPS - History
CAPS-HRM	CAPS - Human Resources Management
CAPS-IA	CAPS - International Affairs
CAPS-IRISH	CAPS - Irish Studies
CAPS-IS	CAPS - International Studies
CAPS-ISLA	CAPS - Integrated Studies in Liberal Arts
CAPS-ITAL	CAPS - Italian
CAPS-JAPAN	CAPS - Japanese
CAPS-JME	CAPS - Jewish, Islamic, & Middle East Studies
CAPS-JRN	CAPS - Journalism
CAPS-KOREAN	CAPS - Korean
CAPS-LAS	CAPS - Latin American Studies
CAPS-LING	CAPS - Linguistics
CAPS-MATH	CAPS - Mathematics & Statistics
CAPS-MUS	CAPS - Music
CAPS-NPM	CAPS - Nonprofit Management
CAPS-PHIL	CAPS - Philosophy
CAPS-PHYS	CAPS - Physics
CAPS-POLSCI	CAPS - Political Science
CAPS-PORT	CAPS - Portuguese

CAPS-PSYCH	CAPS - Psychological & Brain Science (Psychology)
CAPS-RELST	CAPS - Religious Studies
CAPS-RUSS	CAPS - Russian
CAPS-SCAN	CAPS - Scandinavian
CAPS-SCI	CAPS - Science
CAPS-SOC	CAPS - Sociology
CAPS-SPAN	CAPS - Spanish
CAPS-SPCH	CAPS - Speech
CAPS-SUST	CAPS - Sustainability
CAPS-WGSS	CAPS - Women, Gender, & Sexuality Studies
CFH	Center for the Humanities
CHEM	Chemistry
CHINA	Chinese
CHST	Children's Studies
CLASSICS	Classics
CLNV	Clinical Investigation
CNST	Construction Management
COMPLITHT	Comparative Literature & Thought
CSE	Computer Science & Engineering
CWP	College Writing Program
CYBER	Cybersecurity Management

D

Code	Name
DANCE	Dance
DAT	Data Analytics
DCDS	Division of Computational & Data Sciences
DESIGN	Design
DRAMA	Drama

E

Code	Name
EALC	East Asian Languages & Cultures
ECON	Economics
EDUC	Education
EECE	Energy, Environmental, & Chemical Engineering
EEPS	Earth, Environmental, & Planetary Sciences
EGS	Engineering Graduate Studies
ELIT	English Literature
EMED	Emergency Medicine
EMGT	Engineering Management
ENGR	General Engineering
ENST	Environmental Studies
ESE	Electrical & Systems Engineering
ETEM	Engineering Management



F

Code	Name
FASHION	Fashion Design
FILM	Film & Media Studies
FIN	Finance
FRENCH	French

G

Code	Name
GENETICS	Genetics
GENST	General Studies
GERMAN	Germanic Languages & Literatures
GLOBAL	Global Studies
GNCOUN	Genetic Counseling
GREEK	Greek

H

Code	Name
HBRW	Hebrew
HCO	Health Care Operations
HINDI	Hindi
HISTORY	History

I

Code	Name
IMSE	Institute of Materials Science & Engineering
INFO	Information Management
INTERD	Interdisciplinary Studies
INTL	International Studies
IPMS	Movement Science
ITAL	Italian

J

Code	Name
JAPAN	Japanese
JCE	Joint Civil Engineering
JCHE	Joint Chemical Engineering
JCS	Joint Intro to Computing
JEC	Joint Engineering Communications
JEE	Joint Electrical Engineer
JEMT	Joint Engineering Math
JIMES	Jewish, Islamic, & Middle East Studies
JME	Joint Mechanical Engineering

K

Code	Name
KOREA	Korean

L

Code	Name
LANDARCH	Landscape Architecture
LATAM	Latin American Studies
LATIN	Latin
LAW	Law
LAWO	Law Online
LING	Linguistics
LWST	Legal Studies

M

Code	Name
MAIR	Military Aerospace Science
MARM	Military Science
MATH	Mathematics & Statistics
MBIO	Molecular Biology
MBIOPHARM	Molecular Biology & Pharmacology
MEC	Managerial Economics
MEDH	Medical Humanities
MEDICINE	Internal Medicine
MEDINTER	Medicine Interdisciplinary
MEDPHASE1	Medicine Phase 1
MEDPHASE2	Medicine Phase 2
MEDPHASE3	Medicine Phase 3
MEDPHYS	Medical Physics
MEDRSRCH	Medicine Research
MEMS	Mechanical Engineering & Materials Science
MGS	Medicine Graduate Studies
MGT	Management
MKT	Marketing
MSB	Biostatistics & Genetic Epidemiology
MUSIC	Music

N

Code	Name
NEUROL	Neurology
NEUROSCI	Neuroscience
NEUROSUR	Neurological Surgery
NRSSCI	Nursing Science



O

Code	Name
OB	Organizational Behavior
OBGYN	Obstetrics & Gynecology
OPHTH	Ophthalmology & Visual Sciences
ORTHO	Orthopedic Surgery
OSP	Overseas Programs
OT	Occupational Therapy
OTO	Otolaryngology

P

Code	Name
PACS	Audiology & Communication Sciences
PATH	Pathology
PBPMSTUDY	Biological & Physical Sciences for PBPM
PE	Physical Education
PEDS	Pediatrics
PHCC	Public Health Concentration Courses
PHDC	Public Health Doctoral
PHEL	Public Health Electives
PHFN	Public Health Foundation
PHIL	Philosophy
PHPC	Public Health Practicum
PHRS	Public Health Research
PHS	Population Health Sciences
PHSL	Public Health Skill Lab
PHTPS	Public Health Transdisciplinary Problem Solving
PHYSICS	Physics
PHYSTHER	Physical Therapy Program - Grad
PNP	Philosophy-Neuroscience-Psychology
POLSCI	Political Science
PORTUG	Portuguese
PRJM	Project Management
PSY	Psychiatry
PSYCH	Psychological & Brain Sciences
PUBHLTHSOC	Public Health & Society

R

Code	Name
RADIOL	Radiology
RADONC	Radiation Oncology
RELPOL	Religion & Politics
REPRSCI	Reproductive Science
RESEARCH	Research
REST	Religious Studies
RUSS	Russian

S

Code	Name
SCOT	Supply Chain, Operations, & Technology
SDS	Statistics & Data Science
SLU	Saint Louis University
SOC	Sociology
SPAN	Spanish
SPCN	Social Policy Concentration
SPFN	Social Policy Foundation
SPGN	Social Policy General
SPHR	Speech & Hearing
SURGERY	Surgery
SWCP	Social Work Concentration Practicum
SWDT	Social Work Doctoral
SWEL	Social Work Electives
SWEV	Social Work Evaluation
SWFN	Social Work Foundation
SWHS	Social Work History & Professional Theme
SWLM	Social Work Leadership & Management
SWPM	Social Work Practice Methods
SWSL	Social Work Skill Lab
SWSP	Social Policy
SWTH	Social Work Theory

T

Code	Name
TIPM	Industrial Management

U

Code	Name
UMSL	University of Missouri-St. Louis
URBDES	Urban Design
URST	Urban Studies

W

Code	Name
WGSS	Women, Gender, & Sexuality Studies
WRITING	Writing

Catalog Editions

The courses and policies listed in this *Bulletin* are subject to change at any time through normal approval channels within Washington University. New courses, changes to existing coursework, and new policies are initiated by the appropriate institutional departments, committees, or administrators. Academic policy revisions are generally implemented in the next academic year following notification thereof. Washington University publishes a new edition of the *Bulletin* each July, and its contents apply to the subsequent fall, spring, and summer terms. Occasionally a policy or requirement must be changed and implemented during the same academic year (e.g., in the case of relevant external requirements, such as state regulations). All changes must be approved by college or school personnel who oversee academic curriculum and policies.

Washington University students are expected to meet degree requirements published in the *Bulletin* and in place during their year of matriculation. Undergraduates who initially enroll in a summer term to pursue a special program follow requirements for the subsequent fall term. Students will need to check their school's processes to potentially change applicable catalog years or alter their degree requirements.

Students should review specific Washington University and individual school policies related to transfer credit, changing programs, leaves of absence, and military service.

Prior Bulletins

To find program details, course descriptions, and relevant policies, choose the year of enrollment below to find the available *Bulletins*. If the required year is not shown or the school's *Bulletin* is not available, please email the Office of the University Registrar (registrar@wustl.edu) with specifics of what information is needed.

2025-2026

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Public Health Bulletin (HTML) (PDF)

- Social Work & Social Policy Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- School of Continuing & Professional Studies Bulletin (HTML: Undergraduate, Graduate) (PDF)

2024-2025

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- School of Continuing & Professional Studies Bulletin (HTML: Undergraduate, Graduate) (PDF)

2023-2024

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- School of Continuing & Professional Studies Bulletin (HTML: Undergraduate, Graduate) (PDF)

2022-2023

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2021-2022

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2020-2021

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2019-2020

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Business Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2018-2019

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)

- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2017-2018

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Law Bulletin (HTML) (PDF)
- Medicine Bulletin (HTML) (PDF)
- Social Work & Public Health Bulletin (HTML) (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2016-2017

- Graduate Architecture & Urban Design Bulletin (HTML) (PDF)
- Graduate Art Bulletin (HTML) (PDF)
- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Graduate Engineering Bulletin (HTML) (PDF)
- Medicine Bulletin (PDF)
- Undergraduate Bulletin (HTML) (PDF)
- University College Bulletin (HTML: Undergraduate, Graduate) (PDF)

2015-2016

- Graduate Arts & Sciences Bulletin (HTML) (PDF)
- Medicine Bulletin (PDF)
- Undergraduate Bulletin (HTML) (PDF)

2014-2016

- University College Bulletin (undergraduate & graduate) (PDF)

2014-2015

- Medicine Bulletin (PDF)
- Undergraduate Bulletin (HTML) (PDF)

2013-2014

- Medicine Bulletin (PDF)
- Undergraduate Bulletin (HTML) (PDF)

2012-2015

- Graduate Arts & Sciences Bulletin (PDF)

2012-2014

- University College Bulletin (undergraduate & graduate) (PDF)

2012-2013

- Medicine Bulletin (PDF)
- Undergraduate Bulletin (HTML) (PDF)

2011-2012

- Medicine Bulletin (PDF)
- Undergraduate Bulletin (HTML) (PDF)

2010-2011

- Medicine Bulletin (PDF)
- Undergraduate Bulletin (PDF)

2009-2012

- Graduate Arts & Sciences Bulletin (PDF)

2009-2010

- Medicine Bulletin (PDF)

2008-2010

- Undergraduate Bulletin (PDF)

2008-2009

- Medicine Bulletin (PDF)

2006-2009

- Graduate Arts & Sciences Bulletin (PDF)
and accompanying 2008 Update (PDF)

2006-2008

- Undergraduate Bulletin (PDF)

About Washington University in St. Louis

Who We Are Today

Washington University in St. Louis — a medium-sized, independent university — is dedicated to challenging its faculty and students alike to seek new knowledge and greater understanding of an ever-changing, multicultural world. The university is counted among the world's leaders in teaching and research, and it draws students from all 50 states, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands. Students and faculty come from more than 100 countries around the world.

The university offers more than 250 programs and 5,500 courses leading to associate, bachelor's, master's, and doctoral degrees in a broad spectrum of traditional and interdisciplinary fields, with additional opportunities for minor concentrations and individualized programs. For more information about the university, please visit the About WashU page of our website.

Enrollment by School

For enrollment information, please visit the University Facts page of our website.

Our Mission Statement

The mission of Washington University in St. Louis is to act in service of truth through the formation of leaders, the discovery of knowledge, and the treatment of patients for the betterment of our region, our nation, and our world.

At WashU, we generate, disseminate, and apply knowledge. We foster freedom of inquiry and expression of ideas in our research, teaching, and learning.

We aim to create an environment that encourages and supports wide-ranging exploration at the frontier of discovery by embracing diverse perspectives from individuals of all identities and backgrounds. We promote higher education and rigorous research as a fundamental component of an open, vibrant society. We strive to enhance the lives and livelihoods not only of our students, patients, and employees but also of the people of the greater St. Louis community and beyond. We do so by addressing scientific, social, economic, medical, and other challenges in the local, national, and international realms.

Our goals are:

- to foster excellence and creativity in our teaching, research, scholarship, patient care, and service
- to welcome students, faculty, and staff from all backgrounds to create an inclusive, equitable community that is nurturing and intellectually rigorous

- to cultivate in students habits of lifelong learning and critical and ethical thinking, thereby enabling them to be productive members and leaders of a global society
- to contribute positively to our home community of St. Louis, and to effect meaningful, constructive change in our world

To this end we intend:

- to hold ourselves to the highest standards of excellence
- to educate aspiring leaders of great ability from diverse backgrounds
- to encourage faculty and students to be innovative, bold, independent, critical thinkers
- to build an inclusive, equitable, respectful, ethically-principled environment for living, teaching, learning, and working for the present and future generations
- to focus on meaningful and measurable outcomes for all of our endeavors

Mission statement endorsed by the Faculty Senate Council in April 2021 and approved by the Board of Trustees on October 1, 2021.

Trustees & Administration

Board of Trustees

Washington University's Board of Trustees is the chief governing body of Washington University in St. Louis. Current members of the board include the following:

Andrew Bursky
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Please visit the Board of Trustees website for more information.

University Administration

In 1871, Washington University co-founder and then-Chancellor William Greenleaf Eliot sought a gift from Hudson E. Bridge, a charter member of the university's Board of Directors, to endow the chancellorship. Soon after this endowment was received, the position was renamed the "Hudson E. Bridge Chancellorship."

The officers of the university administration are currently led by Chancellor Andrew D. Martin. University leadership is detailed on the Washington University website.

Andrew D. Martin

Chancellor

Mark D. West

Provost

Academic Calendar

The academic calendar of Washington University in St. Louis is designed to provide an optimal amount of classroom instruction and examination within a manageable time frame, facilitating our educational mission to promote learning among both students and faculty. The dates listed here are the outline of the standard semester calendar, applicable to traditional undergraduate and many graduate programs. Certain schools or programs may have varying calendars due to the nature of particular fields of study. Please refer to the Academic Calendar page of the Office of the University Registrar's website for more information.

Fall Semester 2026

Date	Day	Description
August 24	Monday	First day of classes
September 7	Monday	Labor Day holiday (no classes)
October 3-6	Saturday-Tuesday	Fall Break (no classes)
November 25- November 29	Wednesday-Sunday	Thanksgiving Break (no classes)
December 7	Monday	Last day of classes
December 8-9	Tuesday-Wednesday	Reading days
December 10-16	Thursday-Wednesday	Final exams

Spring Semester 2027

Date	Day	Description
January 18	Monday	Martin Luther King, Jr. holiday (no classes)
January 19	Tuesday	First day of classes
March 14-21	Sunday-Sunday	Spring Break (no classes)
May 3	Monday	Last day of classes
May 4-5	Tuesday-Wednesday	Reading days
May 6-12	Thursday-Wednesday	Final exams

Commencement

Date	Day	Description
May 21	Friday	Class of 2027 Commencement

Summer Semester 2027

Date	Day	Description
May 24	Monday	First Summer Session begins
May 31	Monday	Memorial Day holiday (no classes)
July 5	Monday	Independence Day holiday observed (no classes)
August 19	Thursday	Last Summer Session ends

Religious Holiday Class Absence Policy

As home to students, faculty, and staff of all the world's major religions and as a non-sectarian institution, Washington University in St. Louis values the rich diversity of spiritual expression and practice found on campus. It is therefore the policy of the university that students who miss class, assignments, or exams to observe a religious holiday should be accommodated as follows:

1. Absences should be counted as excused in any course in which attendance is a measure of academic performance;
2. Reasonable extensions of time should be given, without academic penalty, for missed assignments; and
3. Exams should be reasonably rescheduled without academic penalty.

To ensure that accommodations may be made, students who plan to miss class for a religious holiday must inform their instructors in writing *before the end of the third week of class* or as soon as possible if the holiday occurs during the first three weeks of the semester. Instructors should inform students on their syllabus and/or at the start of the class how they would like students to notify them of any accommodation needs related to religious observance.

Absence for religious reasons does not lessen students' responsibility for coursework or material covered during their absence. It is incumbent on the student who misses a class to catch up on any material discussed and assignments given during that class period. If a student believes that they have not received a reasonable accommodation despite engaging with their instructor on the topic, they should follow the course grievance process outlined by their school.

The Office for Religious, Spiritual & Ethical Life provides a list of Religious & Spiritual Holidays that fall within the academic year. This list is not a designation of religious holidays recognized by the university, and it is not meant to be comprehensive; it is simply a guide to help students and instructors plan their courses and assignments.

For Faculty

Every effort should be made to avoid scheduling exams on religious holidays, particularly those with work restrictions as noted on the holiday calendar.

Faculty should be supported in establishing a teaching schedule that allows them to avoid conflict with their observance of religious holidays. Where this is not possible, faculty should make up any missed class(es) in the method most appropriate to student learning in their course (e.g., rescheduling for an alternate time, providing asynchronous material, engaging a guest lecturer). Appropriate advance notice should be provided to students.

Any instructor with concerns regarding either a given holiday or the academic implications of a particular student's religious observance of holidays may seek guidance from the chair of their department, the dean of their school, or the Director for Religious, Spiritual & Ethical Life.

Campus Resources

Student Support Services

The Learning Center

The Learning Center, located on the lower level of the Mallinckrodt Center and housed within the Center for Teaching and Learning, is the hub of academic support at Washington University in St. Louis. The Learning Center's programs are designed to support students in their course work by helping them develop the lifelong skill of "learning how to learn" and by stimulating their independent thinking. All services are free (with the exception of MCAT prep), and each year more than 1,800 students participate in one or more of our programs.

The Learning Center offers support for foundational courses through Peer-Led Team Learning and our drop-in mentoring programs (Residential Peer Mentoring and Drop-In Academic Mentoring). Individual peer-led coaching is available for academic skills such as time management, study strategies, note-taking, accessing resources, and managing test anxiety. Other services offered include small group mentoring for eligible students and an MCAT preparation program.

For more information, visit the Learning Center website or call 314-935-2066.

Disability Resources

Disability Resources supports students with disabilities by fostering and facilitating an equal access environment for the Washington University community of learners. Disability Resources partners with faculty and staff to facilitate academic and housing accommodations for students with disabilities on the Danforth Campus. Students enrolled in the School of Medicine should contact their program's director. Please visit the Disability Resources website or call 314-935-5970 for more information.

TRIO: Student Support Services

TRIO is a federally funded program that provides customized services for undergraduate students who are low income, who are the first in their family to go to college, and/or who have a documented disability. Services include academic coaching, academic peer mentoring, cultural and leadership programs, summer internship assistance and post-graduation advising. First-year and transfer students are

considered for selection during the summer before they enter their first semester. Eligible students are encouraged to apply when they are notified, because space in this program is limited. For more information, visit the TRIO Program website.

Medical Student Support Services

For information about Medical Student Support Services, please visit the School of Medicine website.

Office for International Students and Scholars

The Office for International Students and Scholars (OISS) is dedicated to fostering an inclusive environment that celebrates our international students' and scholars' diverse experiences, cultures, and aspirations. OISS plays a pivotal role in cultivating a vibrant, intercultural atmosphere on our campus, extending support to international students, scholars, faculty, and staff through immigration sponsorship. OISS commits to ensuring a seamless integration process for those who are admitted, appointed, or employed by Washington University. Grounded in the belief that education can shape global perspectives, the OISS mission is to empower the Washington University international community with the knowledge and resources needed to navigate U.S. immigration compliance while guiding them with care and compassion at every step.

OISS has locations on both the Danforth Campus and the Medical Campus. For information about OISS locations, office hours, staff, and services, visit the Office for International Students and Scholars website, email oiss@wustl.edu, or call 314-935-5910.

Office of Military and Veteran Services

This office serves as the university's focal point for military and veteran matters, including transitioning military-connected students into higher education, providing and connecting students with programs and services, and partnering across campus and in the community. Services include advising current and prospective students on how to navigate the university and maximize Department of Defense and Veterans Affairs (VA) educational benefits, transition support, Veteran Ally training for faculty and staff, veteran-unique programming, and connecting students to campus and community resources. Military-connected students include veterans, military service members, spouses, dependent children, caregivers, survivors and Reserve Officer Training Corp cadets. There are two university policies that apply to students who still serve in the Armed Forces and students who use VA educational benefits:

- The Policy on Military Absences, Refunds and Readmissions applies to students serving in the U.S. Armed Forces and their family members when military service forces them to be absent or withdraw from a course of study.

- The Policy on Protections for VA Educational Benefit Users applies to students using VA education benefits when payments to the institution and the individual are delayed through no fault of the student.

The Office of Military and Veteran Services is located in Umrath Hall on the Danforth Campus. Please visit the Military and Veteran Services website or send an email to veterans@wustl.edu for more information.

Relationship and Sexual Violence Prevention (RSVP) Center

The RSVP Center offers free and confidential services including 24/7 crisis intervention, counseling services, resources, support and prevention education for all students on the Danforth Campus. The RSVP Center operates from a public health model and uses trauma-informed practices to address the prevalent issues of relationship and sexual violence. By providing support for affected students, it is our goal to foster post-traumatic growth and resilience and to help ensure academic retention and success. Our prevention efforts call for community engagement to engender an intolerance of violence and an active stance toward challenging cultural injustices that perpetuate such issues. Learn more at the RSVP Center website.

WashU Cares

WashU Cares assists the university with handling situations involving the safety and well-being of Danforth Campus students. WashU Cares is committed to fostering student success and campus safety through a proactive, collaborative and systematic approach to the identification of, intervention with and support of students of concern while empowering all university community members to create a culture of caring. If there is a concern about the physical or mental well-being of a student, please visit the WashU Cares website to file a report.

The Writing Center & Speaking Studio

The Writing Center & Speaking Studio — a free service — offers writing and public speaking support to all Washington University undergraduate and graduate students. Tutors will read and discuss any kind of work in progress, including student papers, senior theses, application materials, dissertations and oral presentations. The Writing Center staff is trained to work with students at any stage of the writing process, including brainstorming, developing and clarifying an argument, organizing evidence, and improving style. Rather than editing or proofreading, tutors will emphasize the process of revision and teach students how to edit their own work.

The Writing Center is located in Mallinckrodt Center on the lower level. Appointments are preferred and can be made online, but walk-ins will be accepted if tutors are available. Dedicated Undergraduate Walk-in Hours are held in the second half of each semester (after fall break and spring break) on Tuesday and Wednesday afternoons. Questions? Email writing@wustl.edu.

Student Health and Well-Being Services, Danforth Campus

The Student Health Center – Danforth Campus provides medical, psychiatric, and health promotion services for undergraduate and graduate students on the Danforth Campus. Please visit the Student Health Center – Danforth Campus website for more information about Health Center services and staff members.

Hours:

Monday, Tuesday, Thursday, and Friday: 8 a.m. - 5 p.m.

Wednesday: 10 a.m. - 5 p.m.

Saturday, Sunday, and university holidays: Closed

For after-hours care, students should access TimelyCare.

Medical Services

Medical Services staff members provide care for the evaluation and treatment of an illness or injury, preventive health care and health education, immunizations, nutrition counseling, sports medicine, travel medicine, and sexual health services. Student Psychiatry Services staff provide ongoing medication management for students to address their mental health concerns. Student Health Center providers are participating members of the Washington University in St. Louis Physician's Network. Any condition requiring specialized medical services will be referred to an appropriate specialist. The Health Center accepts health insurance plans that have met waiver criteria for the Student Health Insurance Plan and will be able to bill the plan according to plan benefits. The Student Health Insurance Plan requires a referral for medical care any time care is not provided at Student Health (except in an emergency). Call 314-935-6666 or visit the Student Health Center – Danforth Campus website to schedule an appointment.

Appointments are also available for the assessment and referral of students struggling with substance use.

The Student Health Center lab provides full laboratory services. Some tests can be performed in house. The remainder of all testing that is ordered by Student Health is completed by LabCorp. LabCorp serves as Student Health's reference lab, and it is a preferred provider on the student health insurance plan. This lab can perform any test ordered by Student Health Center providers or outside providers.

All incoming students must provide proof of immunization for measles, mumps, and rubella (i.e., two vaccinations after the age of one year old; a titer may be provided in lieu of the immunizations). Proof of receiving a meningococcal vaccine on or after the age of 16 is

required for all incoming undergraduate students. A TB test in the past six months is required for students entering the university who screen positive on the TB questionnaire found on the student portal. It is also recommended that before beginning their studies at WashU, all students will have received the tetanus diphtheria pertussis immunization, the hepatitis A vaccine series, the hepatitis B vaccine series, the HPV vaccine series, the meningitis B vaccine, and the varicella vaccine. Failure to complete the required forms will delay a student's registration and prevent their entrance into housing assignments. Please visit the Student Health Center website for complete information about immunization requirements and deadlines.

Health Promotion Services

Health Promotion Services staff and Peer Health Educators provide free programs and risk reduction information related to mental health, sexual health, alcohol/other drugs, and community care. For more information, visit the Zenker Wellness Suite in Sumers Recreation Center, consult the Health and Wellbeing Digital Library, follow us on Instagram (@washu_healthpromotion), and/or email wellness@wustl.edu. In 2018, this department launched the WashU Recovery Community to provide an opportunity for students in recovery from substance use to connect with other students with similar experiences.

Center for Counseling and Psychological Services (CCPS)

Hours:

Monday, Tuesday, Thursday, and Friday: 8 a.m. - 5 p.m.

Wednesday: 10 a.m. - 5 p.m.

Saturday, Sunday, and university holidays: Closed

For after-hours mental health support, students should access the TimelyCare app and request a "Talk Now" visit.

Located in the Student Health Center-Danforth Campus, CCPS is staffed by licensed professional staff members who work with students to resolve personal and interpersonal difficulties. These may include conflicts with or worry about friends or family, concerns about eating or drinking patterns, and feelings of anxiety and depression. Services include individual, group, and couples counseling; crisis counseling; and referral for off-campus counseling when students' needs can be better met outside of CCPS. All full-time students who pay the university health and wellness fee as part of their tuition are eligible for services. Visit the CCPS website or call 314-935-6695 to schedule an appointment during business hours. For additional information, visit the CCPS website or send an email to ccpscoordinator@wustl.edu.

Important Information About Health Insurance and Fees for Danforth Campus Students

All full-time, degree-seeking WashU students are automatically enrolled in the Student Health Insurance Plan upon completion of registration. Students may opt out of this coverage and receive a refund of the health insurance fee if they provide proof of existing comprehensive insurance coverage that meets all university requirements. Information concerning opting out of the student health insurance plan can be found online after June 1 of each year. All students must request to opt out by September 5 of *every year* in which they wish to be removed from the Student Health Insurance Plan. The Student Health Center provides billing services to many of the major insurance companies in the United States. Specific fees and copays apply to students using Medical Services and Student Psychiatric Services; these fees are billable to the students' insurance plans. More information is available on the Student Health Center – Danforth Campus website.

In addition, WashU has a health and wellness fee designed to improve the health and well-being of the campus community. It is assessed by the university, and it is entirely separate from health insurance. This fee helps support membership to the Summers Recreation Center, health education/prevention efforts, the Center for Counseling and Psychological Services, and TimelyCare.

Student Health Services, Medical Campus

For information about student health services on the Medical Campus, please visit the Student & Occupational Health Services page of the School of Medicine website.

Campus Security

The Washington University campus is among the most attractive in the nation, and it enjoys a safe and relaxed atmosphere. Personal safety and the security of personal property while on campus is a shared responsibility. Washington University has made safety and security a priority through our commitment to a full-time professional police department, the use of closed-circuit television, card access, extensive lighting initiatives based on Crime Prevention Through Environmental Design (CPTED) practices, shuttle services, emergency telephones, and ongoing educational safety awareness programs. The vast majority of crimes that occur on college campuses are crimes of opportunity, which can be prevented.

The best protection against crime is an informed and alert campus community. Washington University has developed several programs to help make everyone's experiences here safe and secure. An extensive network of emergency telephones — including more than 200 "blue light" telephones — is connected directly to the University Police

Department and can alert the police to a person's exact location. In addition to the regular shuttle service, an evening student walking/mobile escort service known as "Bear Patrol" and a mobile Campus Circulator shuttle are available on the Danforth Campus.

The Campus2Home shuttle will provide a safe ride home for those living in four designated areas off campus — Skinker-DeBaliviere, Loop South, north of the Loop, and just south of the campus — within these boundaries:

- North – Olive Blvd
- South – Clayton Road
- East – Union Blvd
- West – Hanley Road

Shuttles will run from 7:00 p.m. to 4:00 a.m. seven days a week during academic sessions. Rides should be requested via the TripShot app. Pickup locations to choose from are the Mallinckrodt Center, the Summers Welcome Center, and the Knight Center. The shuttle takes passengers directly to the front doors of their buildings. Shuttle drivers will then wait and watch to make sure passengers get into their buildings safely.

The University Police Department is a full-service organization staffed by certified police officers who patrol the campus 24 hours a day throughout the entire year. The department offers a variety of crime prevention programs, including a high-security bicycle lock program, computer security tags, personal safety classes, and security surveys. Community members are encouraged to download and install the WashU Safe personal safety app on their phones; this app allows users to call for help during emergencies, to use Friend Walk to track their walks on and off campus, and to access many additional safety features. For more information about these programs, visit the Washington University Police Department website.

WashU PD also has comfort dogs — Bear, Brookie, Misty, and Archie — on campus to support our students, faculty, and staff. In addition, there is a decompression/comfort room inside the police station at 6615 Shepley Drive on the South 40. This room offers a supportive, stress-free, and welcoming environment designed to promote wellness and connection with the officers and the comfort dogs. Students are welcome to walk in at any time, or they can schedule a visit by emailing wupddogs@wustl.edu to secure a dedicated time with the dogs.

In compliance with the Campus Crime Awareness and Security Act of 1990, Washington University publishes an annual report entitled *Safety & Security: Guide for Students, Faculty, and Staff — Annual Campus Security and Fire Safety Reports and Drug & Alcohol Abuse Prevention Program*. This report is available to all current and prospective students on the Danforth Campus and to university employees on the Danforth, North and West campuses. To request a hard copy, contact the Washington University Police Department, 6615 Shepley Drive, Clayton, MO 63105, 314-935-5555.

For information regarding protective services at the School of Medicine, please visit the Campus Safety page of the Washington University Operations & Facilities Management Department.

Student Complaints

WashU provides students with different processes to handle complaints depending on the nature of the complaint. The Student Feedback & Complaint Form provides information on the different avenues available, as well as a web-form for submitting complaints. Complaints submitted through the form are reviewed by the Office of the Vice Chancellor for Student Affairs and forwarded to the University office or department that would be responsible for addressing the complaint. Complaints may be made anonymously, but students have the option of providing contact information to receive a response regarding steps taken to resolve the complaint. The University's Whistleblower Protection Policy applies to students making good-faith complaints regarding violations of policy or unethical acts.

If a student has a complaint related to distance education, as a participant in the National Council for State Authorization Reciprocity Agreements (NC-SARA), WashU follows the SARA policy that provides for the resolution of complaints resulting from distance education courses, activities, and operations delivered by WashU to students who participate in such courses outside of the state of Missouri (including the District of Columbia, Puerto Rico, and the US Virgin Islands, but excepting California, which is not a member of NC-SARA). Under NC-SARA Policy Section 4.5 (Process for Resolving Complaints), students are asked to seek resolution of complaints first through WashU, as described above. If the complaint is not resolved, distance education students should contact the Missouri State Portal Entity:

Joshua Fischer, Program Specialist
Email: joshuafischer@dhewd.mo.gov
Phone: 573-751-2361
Missouri Department of Higher Education and Workforce
Development
PO Box 1469
Jefferson City, MO 65102-1469

Students who participate in distance education courses and who reside in California may contact the Bureau for Private Postsecondary Education.

University Policies

Washington University has various policies and procedures that govern our faculty, staff and students. Highlighted below are several key policies of the university. Web links to key policies and procedures are available on the Office of the University Registrar website and on the University Policies page. Please note that the policies identified on these websites and in this *Bulletin* do not represent an entire repository of university policies, as schools, offices, and departments may implement policies that are not listed. In addition, policies may be amended throughout the year.

Application to Graduate

Students are required to apply for program completion in Workday, by the deadline relevant to the semester in which they intend to graduate, in order to be eligible for degree conferral. Additional information is available from the Office of the University Registrar.

Compliance with Section 103 of the Veterans Benefits and Transition Act of 2018

It is WashU's policy to not impose penalties on individuals using Veteran Education Benefits, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement to borrow additional funds to cover the student's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the VA. This applies to individuals who submit their Certificate of Eligibility for entitlement to educational assistance to their VA School Certifying Official (SCO).

1. Students should submit a Certificate of Eligibility not later than the first day of a course for which the student wishes to use the entitlement for educational assistance. The SCO will advise the student to provide additional Documentation and information necessary for the proper certification of enrollment.
2. If a student does not receive their Certificate of Eligibility from the VA by the start of the academic term, the student should notify their SCO of their intent to use Veteran Education Benefits and should submit additional Documentation and forms as requested.
3. In cases where a student is unable to meet a financial obligation to the university because the amount of a disbursement from the VA is less than anticipated, the university will require additional payment from the student and will provide the student with a timeline for payment before assessing late fees. Students should contact their SCO for assistance.
4. Students may request certification for previous academic terms if they were eligible for benefits at the time for which they want to be certified. In cases where Veteran Education Benefits are used to certify previous academic terms, students are responsible for any late fees incurred prior to the date of the certification request. This excludes Yellow Ribbon benefits, which are not retroactive for previous fiscal years.

Courses and Credit

Academic Calendar

Washington University in St. Louis primarily follows a standard semester-based academic calendar: a fall and spring semester, each spanning 16 calendar weeks, including sessions of half-semester lengths and intersessions beginning before the term start date, and

a summer term of 13 weeks, including sessions of half-term length, an intercession beginning before the term start date, and 3-, 5- and 8-week lengths. The Doctor of Medicine program follows a yearlong calendar supporting modular curriculum delivery.

Credit Measure

Credit hours for undergraduate and graduate programs are awarded as “units” based on the University Statement on Credit, which is in alignment with the Federal definition found in 34 CFR 600.2.

Email Communication

Email is the mechanism for official communication with students at Washington University. Students are expected to read email communications from the university in a timely fashion.

All students will be individually assigned a University email address, which will be maintained in the University email directory. Official University communications will be sent to the student's University email address in order to ensure such communications reach the intended recipient.

With the exception of School of Medicine students, a student may have email forwarded from their assigned University email address to another email address of the student's choice. School of Medicine students are prohibited from forwarding their University-assigned email address to an email address external to the University other than @bjc.org and @va.gov email domains. Students who choose to have email forwarded to another email address do so at their own risk. The University is not responsible for email forwarded to any other email address. A student's failure to read official University communications sent to the student's University email address does not absolve the student of responsibility for awareness of and compliance with the content of the official communication. Faculty and administrators should use a student's University email address when communicating via email with the student. This policy will ensure that all students will be able to comply with course and other requirements communicated to them by email from course instructors and administrators.

Graduate Student Academic Integrity

Authority of Schools Over Graduate and Graduate Professional Students

1. Each school at the university may establish an academic integrity officer and/or a panel to hear and decide cases of alleged academic or professional misconduct by its graduate or graduate professional students. Schools that so choose are required to create procedures to govern the process of investigating and adjudicating the complaints filed.

- a. The school dean, or a designee, determines the composition of such a panel and the scope of the panel's authority, which will not exceed the parameters set out immediately below.
 - b. The panel has authority to impose or recommend appropriate sanctions to the school dean, including suspension or expulsion, if academic or professional misconduct is determined.
 - c. Appeals of decisions made by an academic and professional integrity panel of a school may be made to the school dean, whose decision is final. This includes decisions of a school's academic and professional integrity panel, where the panel is vested with such authority, and the panel's decision is to impose the sanctions of suspension or expulsion. Schools are permitted, but not required, to establish an intermediate level of appeal that must be completed before a final appeal to the dean.
 - d. Except for cases falling within the immediately preceding sub-bullet, any appeal from a decision of a dean of a school to suspend or expel a student will be made in accordance with the provisions of Section VI of the Code.
2. If a school does not establish an academic integrity officer or panel or if an established officer or panel fails to function, complaints of academic or professional misconduct against graduate or graduate professional students may be heard by Academic Integrity in the Office of the Provost, the Academic Integrity Board, or the Student Conduct Board.

Source: Washington University Student Conduct Code IV.A.6

International Travel

WashU is concerned with the health, safety, and security of all members of our community while they are traveling outside of the United States of America.

The WashU International Travel Policy has been adopted to ensure a consistent set of travel standards to be followed by all units of the university. The policy applies to all international travel that is sponsored by, that is funded in any part by, or that involves registered academic experiences at Washington University in St. Louis.

The full text of the International Travel Policy is available on the WashU Global website.

Involuntary Leave

Policy Statement

The primary goals of this Involuntary Leave Policy (“policy”) are to protect the well-being and safety of Washington University students and the university community and to preserve the integrity of the university's academic, residential and administrative functions.

An involuntary leave under this policy will not be invoked unless the student's behavior is of such a serious nature that the continued presence of the student at the university is judged to threaten the safety, well-being or health of that student and/or others in the WashU community, or the ability of that student or others to engage in customary functions and activities at the university.

Examples of circumstances where this policy may be invoked include: suicidal threats; self-starvation or purging behavior; substance abuse or addiction; threats of harm to self or others; or disturbing, disruptive or destructive behavior.

This policy is not intended to replace disciplinary actions taken in response to violations of other university policies, including the university Student Conduct Code (SCC). A student who commits a violation of any university policy before taking voluntary leave or being placed on involuntary leave may be required to defend such charges before being considered for re-admission. Temporary suspension may also be issued in accordance with the SCC and this policy.

Policy Procedures

The vice chancellor for student affairs, the dean of any school or the designees of any of the aforementioned (referred to herein as "administrator") may be alerted to a student's concerning behavior from a variety of sources on campus including the student's advisor, a college dean, residential life staff, student affairs staff, health care providers or other faculty members. If the administrator deems it appropriate, the following procedures may be initiated.

1. **Notification:** Whenever possible, the administrator will notify the student that involuntary leave is under consideration and attempt to meet with the student to discuss his or her behavior. The administrator will provide the student with a copy of this policy. During the meeting, the administrator may choose to encourage the student to take a voluntary leave of absence, thereby eliminating the need to complete the procedures for involuntary leave. If the administrator believes that the student's well-being may be in imminent danger, he or she may proceed with a case conference without notifying and/or meeting with the student.
2. **Assembly of Case Conference Committee:** If the student is unable or chooses not to meet with the administrator, or if the student chooses not to take a voluntary leave of absence and the administrator still believes that involuntary leave may be appropriate, the administrator will convene a Case Conference Committee ("committee") of appropriate individuals or their designates to conduct a case conference regarding the need for an involuntary leave of absence. The committee may include the following:
 - The dean of the student's college or school
 - The assistant/associate vice chancellors for student affairs
 - Student conduct administrator
 - Director of the Student Health Center, Danforth Campus
 - Director of Counseling and Psychological Services
 - Assistant director of sorority and fraternity life
 - Executive director of Campus Life

- Chief of police
- Residential Life staff
- Director of the Office of International Students & Scholars
- Office of the General Counsel
- The student's advisor(s) or academic dean
- Professors, instructors, or staff who have observed the student's behavior of concern

3. **Committee Consideration:** The administrator should convene a Case Conference as soon as possible. During this conference, the committee should address whether and to what extent the student engages in, or is judged to be likely to engage in, behavior described in this policy. Where deemed necessary by the committee to facilitate a more informed recommendation, the committee may consult with other university administrators, faculty or staff familiar with the student. The committee may seek additional information from the student or enlist the assistance of other university faculty or staff members familiar with the student to consult with the student on behalf of the committee. If contacted, the student may refuse to provide information, but such refusal shall not limit the right of the committee to make a recommendation under this policy, nor limit the right of the university to mandate an involuntary leave.
4. **Committee Recommendation:** Following the Case Conference and the review of relevant information, the committee will make a written recommendation to the administrator. In lieu of recommending involuntary leave, the committee may make recommendations as to other conditions and/or requirements under which the student may remain at the university.
5. **Decision:** After review of the committee's recommendation, the administrator will decide whether to mandate an involuntary leave of absence, to mandate other requirements if the student remains at the university, or to permit the student to remain at the university with no additional requirements. The administrator will give the student written notice of this decision. This notice will provide (1) a brief summary of the reasons for decision, (2) the duration of the leave or a description of the requirements for the student to remain on campus, and (3) the steps that the student must take to request readmission if involuntary leave is invoked. The administrator may notify a parent or guardian, in accordance with the Family Educational Rights & Privacy Act ("FERPA"). Pursuant to FERPA, the administrator may also notify a spouse or partner upon obtaining the student's consent. Where an involuntary leave is mandated, the student must leave campus within the time frame established in the notice. In that event, the student's parent(s), guardian(s) or other persons may be asked to make arrangements for the safe removal of the student from the university community.

Option of Voluntary Leave

At any time prior to the administrator's decision, the student may choose to take voluntary leave. The university expects students to notify family members when they voluntarily withdraw from the university. However, when permitted by FERPA, the university retains the discretion to notify parents, guardians, spouses or partners if the student chooses to leave.

Records and Tuition

Leave may affect academic grades, credits and access to university housing or other facilities. Tuition, financial aid, and housing costs will be refunded in accordance with university policy. Regardless of whether leave is voluntary or involuntary, the student's status at the university will be updated in student systems to reflect a leave of absence, which includes a notation on the transcript indicating: "Leave of Absence" and the start date. When involuntary leave is not mandated, but a student is required to fulfill certain requirements to remain on campus, the student's in-progress status is unchanged and no notation will be made on the transcript.

Safety and Security

In cases involving serious and imminent threat to the safety, well being or health of the student or other members of the campus community, or to the ability of others in the university community to conduct their customary university functions and activities, the administrator may take immediate action to remove the student from the university community. In such event, the administrator may immediately notify the student's parent, guardian, spouse, partner, or other relevant individuals in accordance with FERPA. The parent, guardian or other person may be asked to make arrangements for the safe removal of the student from the university community pending a decision on involuntary leave.

Request for Re-Enrollment

When a student is placed on involuntary leave or accepts voluntary leave, a letter from the administrator to the student will outline the conditions for re-enrollment. Conditions for re-enrollment are at the discretion of the administrator. If the leave was for health or medical reasons, the administrator will work with the director of health services or his/her designate to formulate appropriate conditions of return, which may include requirements and/or guidance regarding treatment. A copy of this letter will be forwarded to the academic dean of the student's college or school and, where health-related, to the director of the Student Health Center.

When a student's voluntary or involuntary leave is not health-related, the procedures to request re-enrollment will be outlined in the administrator's letter.

The following process will guide re-enrollment for all students taking involuntary or voluntary leave of absence for a health-related reason:

1. The student must contact in writing both the academic dean and the director of the Student Health Center to request re-enrollment between June 1 and July 1 for the upcoming fall semester or November 1 and December 1 for the spring semester.
2. The student's health status must be reviewed by the director of the Student Health Center or his/her designate. As part of the review, the student may be asked to present written evidence that the student has been evaluated and completed follow-up measures recommended by the student's treating health care professional. This evidence may include a recitation of the health care professional's credentials, a description of their contact with the student, the evaluation method, the diagnosis, the recommended follow-up measures and the student's efforts to complete them. The student's efforts to complete those follow-up measures will be evaluated to determine whether the student used the time away from the university to address the issues that led to the separation and to acquire skills to facilitate a successful return to the university.
3. A recommendation regarding medical eligibility for re-enrollment will be made by the director of the Student Health Center or his/her designate and forwarded to the student's academic dean and the administrator. The academic dean, in consultation with the administrator, will determine academic eligibility for re-enrollment and will communicate in writing the final decision and any conditions to the student.

Appeal of Administrator Decisions

A student may submit, within 24 hours of receiving the written decision from the administrator, a written appeal to the provost who will review the written record only. A decision to affirm or reverse the administrator's decision will be rendered within 48 hours. The decision of the administrator will be affirmed if supported by substantial information appearing in the record of the case. The decision of the provost is final.

Confidentiality

The university will strive to protect, to the greatest extent possible, the confidentiality of students involved in matters of voluntary or involuntary leave. Because the university has an obligation to preserve the security of its community, the university cannot guarantee complete confidentiality where it would conflict with the university's obligation to investigate meaningfully matters which may threaten a student's health or safety or the safety and security of the university community. When some disclosure of the university's information or sources is necessary, that disclosure will be limited to the extent possible. Medical records of a student will be protected in accordance with the WashU Student Health Center Notice of Privacy Practices. The university will, to the extent permitted by law, keep confidential all records of committee reviews. The records maintained by the Case Conference Committee will be available only to the administrator.

and other university officials in accordance with FERPA. All records will be destroyed after a period of ten (10) years from the date of final decision on involuntary leave or the student's decision to take voluntary leave.

Nondiscrimination Statement

Washington University encourages and gives full consideration to all applicants for admission, financial aid, and employment. The university does not discriminate in access to, treatment during, or employment in its programs and activities on the basis of race, color, national origin (including shared ancestry or ethnic characteristics), citizenship (where prohibited by federal law), age, religion, sex, sexual orientation, gender identity or expression, veteran status, disability, or genetic information.

Policy on Discrimination and Harassment

Washington University is committed to having a positive learning and working environment for its students, faculty, and staff. University policy prohibits discrimination on the basis of race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin (including shared ancestry or ethnic characteristics), citizenship (where prohibited by federal law), veteran status, disability, or genetic information. Harassment based on any of these classifications is a form of discrimination; it violates university policy and will not be tolerated. In some circumstances, such discriminatory harassment may also violate federal, state, or local law. A copy of the Discrimination and Harassment Policy is available on the Human Resources website.

Conduct Prohibited by Title VI

Title VI of the Civil Rights Act of 1964 prohibits discrimination based on race, color, or national origin in programs that receive federal financial assistance. Discrimination on the basis of race, color, or national origin includes discrimination or harassment based on a person's actual or perceived 1) shared ancestry or ethnic characteristics; or 2) citizenship or residency in a country with a dominant religion or distinct religious identity (such as individuals who are Hindu, Jewish, Muslim, Buddhist, or Sikh). Such conduct is prohibited by the Discrimination and Harassment Policy.

Sexual Harassment

Sexual harassment is a form of discrimination that violates university policy and will not be tolerated. It is also illegal under state and federal law. Title IX of the Education Amendments of 1972 prohibits discrimination based on sex (including sexual harassment and sexual violence) in the university's educational programs and activities. Title IX also prohibits retaliation for asserting claims of sex discrimination. The university has designated the Title IX Coordinator identified below to coordinate its compliance with and response to inquiries concerning Title IX.

For more information or to report a violation under the Policy on Discrimination and Harassment, please contact the following individuals:

Discrimination and Harassment Response Coordinators

Apryle Gladney, Vice Chancellor and Chief Human Resources Officer
Phone: 314-935-1252
apryle.gladney@wustl.edu

Gillian Lawson, Director of Investigations, Office of Institutional Equity
Phone: 314-935-1139
oie-investigations@wustl.edu; gillian.boscan@wustl.edu

Office: The Link in the Loop
Address: 621 N. Skinker Blvd., Suite 300, St. Louis, MO 63130
WashU University Reporting Hotline

Title IX Coordinator

Jessica Kennedy, Director & Title IX Coordinator, Office of the Provost
Phone: 314-935-3118
jwkennedy@wustl.edu

Office: Umrath Hall, Room 001
Address: One Brookings Drive, MSC 1175-0153-0B, St. Louis, MO 63130

Inquiries or complaints regarding civil rights may also be submitted to the United States Department of Education's Office of Civil Rights at 400 Maryland Avenue, SW, Washington, DC 20202-1100; by visiting the U.S. Department of Education website; or by calling 800-421-3481.

Student Academic Records and Transcripts

Under the Family Educational Rights and Privacy Act of 1974 (FERPA) — Title 20 of the United States Code, Section 1232g, as amended — current and former students of the university have certain rights with regard to their educational records. Washington University's FERPA policy is available via the Office of the University Registrar's website.

All current and former students may request official Washington University transcripts of their academic records from the Office of the University Registrar. Current students may print unofficial transcripts for their personal use from Workday. Instructions and additional information are available on the Office of the University Registrar's website.

Washington University does not release nor certify copies of transcripts or other academic documents received from other schools or institutions. This includes test score reports and transcripts submitted to Washington University for purposes of admission or evaluation of transfer credit.

Academic records may not be altered after degree conferral, at which time records are considered closed or sealed.

Student Conduct

The Washington University in St. Louis Student Conduct Code (“the Code”) sets forth community standards and expectations for university students. These community standards and expectations are intended to foster an environment conducive to working, learning, and inquiry. Each student is held to the expectations outlined in the Code.

Freedom of thought and expression as well as respect for different points of view are essential to the university’s academic mission. Nothing in the Code should be construed to limit the lawful, free, and open exchange of ideas and viewpoints, even if that exchange proves to be offensive, distasteful, or disturbing to some. However, such speech must conform to university policies.

The Code also describes general procedures that may be used to ensure that these standards and expectations are upheld by all students. The university is committed to ensuring that students adhere to university policies, take responsibility for their actions, and recognize how their choices may affect others.

Complaints against students that include allegations of sex-based discrimination — including sexual harassment, sexual assault, dating violence, domestic violence and stalking — in violation of the Student Conduct Code are governed by the procedures found on the Gender Equity and Title IX Compliance Office website. These procedures are also available in hard copy from the Title IX Coordinator or the director of the Office of Student Conduct and Community Standards.

Students may be accountable to both governmental authorities and to the university for acts that constitute violations of law and the Student Conduct Code.

For a complete copy of the Student Conduct Code, visit the Student Affairs website.

For more information, visit the Student Conduct and Community Standards website.

Student Financial Responsibility

Communication

Washington University in St. Louis uses University-assigned email accounts and University-supported systems for communication with students and authorized users. Washington University will also contact students via personal email addresses, cellular phone numbers, or wireless devices from time to time regarding the Student Account or other general information. Students are responsible for reading University communications in a timely manner.

Promise to Pay

When students register for any course at or receive any service from Washington University in St. Louis, they accept full responsibility to pay all tuition, fees, and other associated charges assessed as a result of registration and/or receipt of services such as housing, dining, and other University-provided items that exceed financial support provided by the University, the University payment plan, and/or third parties by the scheduled due dates shown on the WebSTAC student account. Failure to attend class or receive a bill does not absolve students of financial responsibility as described above.

Failure to Pay

University policies regarding Student Accounts (including payment options, late fees, holds, and refunds) are published on the University’s Financial Services website. If a student fails to pay the Student Account balance by the scheduled due dates, the University will place a financial hold preventing the student from registering for future courses and could assess a late fee on the past due portion until the past due amount is paid in full. Failure to pay will result in a Delinquent Student Receivable Account. Delinquent Student Accounts will be referred to University’s Collection Services department. Collection Services may report the Delinquent Student Account to one or more national credit bureaus, refer the Delinquent Student Account to a third-party collection agency, and pursue all legal and equitable remedies to collect the monies owed to the University.

Student Health

Drug and Alcohol Policy

Washington University is committed to maintaining a safe and healthy environment for members of the university community by promoting a drug-free environment as well as one free of the abuse of alcohol. Violations of the Washington University Drug and Alcohol Policy will be handled according to existing policies and procedures concerning the conduct of faculty, staff, and students. This policy is adopted in accordance with the Drug-Free Workplace Act and the Drug-Free Schools and Communities Act.

Tobacco-Free Policy

Washington University is committed to providing a healthy, comfortable and productive work and learning environment for all students, faculty, and staff. Research shows that tobacco use in general, including smoking and breathing secondhand smoke, constitutes a significant health hazard. The university strictly prohibits all smoking and other uses of tobacco products within all university buildings and on university property, at all times. A copy of our complete Tobacco-Free and Smoke-Free Policy is available on the Washington University Human Resources website.

Medical Information

Entering students in Danforth Campus programs must provide medical information to the Student Health Center – Danforth Campus. This will include the completion of a health history and a record of all current immunizations.

If students fail to comply with these requirements prior to registration, they must obtain the required vaccinations and tests at the Student Health Center – Danforth Campus or in the community. Students will be assessed the costs of the vaccinations and/or tests. Students will be unable to complete registration for classes until all health requirements have been satisfied.

Noncompliant students may be barred from classes and from all university facilities, including housing units, if in the judgment of the university their continued presence would pose a health risk to themselves or to the university community.

Medical and immunization information is to be given via the student health portal on the Student Health Center – Danforth Campus website. All students who have completed the registration process should access the student health portal on the website. Students should fill out the form and follow the instructions for transmitting it to the Student Health Center – Danforth Campus. Student information is treated securely and confidentially.

Entering students in Medical Campus programs must follow the requirements as outlined on the WashU Medicine Student Health Services website.

Student Status: Expulsion and Dismissal

The terms *expulsion* and *dismissal* are used to indicate distinct types of involuntary separation of a student from the university or from their program of study.

- *Expulsion* refers to a permanent removal from the university. A student who is expelled is not eligible to return to a prior program of study nor to enter a new program of study.
- *Dismissal* refers to a permanent separation from a specific program of study or school. A student may apply to begin a different program of study and may or may not be admitted according to the standards and practices of that program or school.

Time Away and Reinstatement

Degree-seeking students may be eligible to request a leave of absence for health or other personal reasons (e.g., family, military service, professional obligations, religious mission). The mechanism and process are described on the Office of the University Registrar's website. Such leaves may exceed no more than two years from the effective date of the leave; individual programs' policies may limit

students to shorter leaves. Students must verify their school and program policies and any other relevant requirements related to immigration or financial aid/support policies. Students who have not requested and received approval for reinstatement after two years will have their records withdrawn.

Required enrollment reporting to the federal government will reflect a leave of absence for 180 days after it is enacted; any longer duration of institutional leave is recorded in their systems as a withdrawal.

Students on approved leave of absence will retain access to their Washington University email addresses, and to Workday to review their records. Access to other University privileges such as recreation facilities and libraries as well as participation in activities are paused during a leave of absence.

Students are expected to request reinstatement to in-progress status to resume studies via the process outlined on the Office of the University Registrar's website. Depending on the nature of their leave, additional steps or documentation may be required and must be provided to appropriately consider the request. Students whose records have been withdrawn as a result of two years of inactivity may be allowed, depending on program-specific policies regarding the maximum time allowed to complete the program of study, to request to re-enter their programs. In these cases, additional items may be required of the student depending on the circumstances, the length of time away, and whether their program of study has undergone curricular revisions since their enrollment.

Undergraduate Student Academic Integrity

Effective learning, teaching, and research all depend upon the ability of members of the academic community to trust one another and to trust the integrity of work that is submitted for academic credit or conducted in the wider arena of scholarly research.

Such an atmosphere of mutual trust fosters the free exchange of ideas and enables all members of the community to achieve their highest potential.

In all academic work, the ideas and contributions of others must be appropriately acknowledged, and the work of a student that is presented as original must be, in fact, original. Faculty, students, and administrative staff all share the responsibility of ensuring the honesty and fairness of the intellectual environment at Washington University in St. Louis.

Scope and Purpose

This statement on academic integrity applies to all undergraduate students at Washington University. Graduate students may be governed by policies in each graduate school or division. To the extent a graduate school or program has not adopted its own academic integrity policy, the provisions of this policy will apply. All students are expected to adhere to the highest standards of behavior.

The purpose of the statement is twofold:

1. To clarify the university's expectations with regard to undergraduate students' academic behavior; and
2. To provide specific examples of academic misconduct (the examples are only illustrative, *not* exhaustive).

This policy and statement were endorsed by the Faculty Senate Council. Any changes to the policy are to be reviewed by the Faculty Senate Council, as described in the Faculty Senate Council bylaws.

Violations of This Policy Include but Are Not Limited to the Following:

1. Plagiarism

Plagiarism consists of taking someone else's ideas, words or other types of work product, and presenting them as one's own. To avoid plagiarism, students are expected to be attentive to proper methods of documentation and acknowledgement. To avoid even the suspicion of plagiarism, a student must always:

- Enclose every quotation in quotation marks and acknowledge its source.
- Cite the source of every summary, paraphrase, abstraction or adaptation of material originally prepared by another person and any factual data that is not considered common knowledge. Include the name of author, title of work, publication information and page reference.
- Acknowledge material obtained from lectures, interviews or other oral communication by citing the source (name of the speaker, the occasion, the place and the date).
- Cite material from the internet or material generated by an artificial intelligence as if it were from a traditionally published source. Follow the citation style or requirements of the instructor for whom the work is produced.

2. Cheating on an Examination

A student must not receive or provide any unauthorized assistance on an examination. During an examination, a student may use only materials authorized by the faculty.

3. Copying or Collaborating on Assignments Without Permission

When a student submits work with their name on it, this is a written statement that credit for the work belongs to that student alone. If the work was a product of collaboration, each student is expected to clearly acknowledge in writing all persons or artificial intelligences who contributed to its completion.

Unless the instructor explicitly states otherwise, it is dishonest to collaborate with others when completing any assignment or test, performing laboratory experiments, writing and/or documenting computer programs, writing papers or reports, and completing problem sets.

If the instructor allows group work in some circumstances but not others, it is the student's responsibility to understand the degree of acceptable collaboration for each assignment and to ask for clarification if necessary.

To avoid cheating or unauthorized collaboration, a student should never:

- Use, copy, or paraphrase the results of another person's work or material generated by an artificial intelligence and represent that work as their own, regardless of the circumstances.
- Refer to, study from, or copy archival files (e.g., old tests, homework, solutions manuals, or backfiles) that were not approved by the instructor.
- Copy another's work or to permit another student to copy their work.
- Submit work as a collaborative effort if they did not contribute a fair share of the effort.

4. Fabrication or Falsification of Data or Records

It is dishonest to fabricate or falsify data in laboratory experiments, research papers, reports or in any other circumstances; to fabricate source material in a bibliography or "works cited" list; or to provide false information on a résumé or other document in connection with academic efforts. It is also dishonest to take data developed by someone else and present them as one's own.

Examples of falsification include:

- Altering information on any exam, problem set, or class assignment being submitted for a re-grade.
- Altering, omitting, or inventing laboratory data to submit as one's own findings. This includes copying laboratory data from another student to present as one's own; modifying data in a write-up; and providing data to another student to submit as their own.

5. Other Forms of Deceit, Dishonesty, or Inappropriate Conduct

Under no circumstances is it acceptable for a student to:

- Submit the same work, or essentially the same work, for more than one course without explicitly obtaining permission from all instructors. A student must disclose when a paper or project builds on work completed earlier in their academic career.
- Request an academic benefit based on false information or deception. This includes requesting an extension of time, a better grade or a recommendation from an instructor.
- Make any changes (including adding material or erasing material) on any test paper, problem set or class assignment being submitted for a re-grade.
- Willfully damage the efforts or work of other students.
- Steal, deface, or damage academic facilities or materials.
- Collaborate with other students planning or engaging in any form of academic misconduct.

- Submit any academic work under someone else's name other than their own. This includes but is not limited to sitting for another person's exam; both parties will be held responsible.
- Violate any rules or conditions of test-taking or other course assessment (e.g., bringing materials or devices into an exam room when disallowed).
- Engage in any other form of academic misconduct not covered here.

This list is not intended to be exhaustive. To seek clarification, students should ask the professor or teaching assistant for guidance.

Reporting Misconduct

Faculty Responsibility

Faculty and instructors are strongly encouraged to report incidents of student academic misconduct to the academic integrity coordinators in the Office of the Provost in a timely manner (normally within five business days of discovery) so that the incident may be handled fairly and consistently across schools and departments. Teaching assistants and assistants in instruction are expected to report instances of student misconduct to their supervising instructors. Faculty members are expected to respond to student concerns about academic integrity violations in their courses.

Student Responsibility

If a student observes others violating this policy, they are strongly encouraged to report the misconduct to the instructor, to seek advice from the academic integrity coordinator in the Office of the Provost, or to address the student(s) directly.

Exam Proctor Responsibility

Exam proctors are expected to report incidents of suspected student misconduct to the course instructor and/or the Disability Resources staff, if applicable.

Procedure

Jurisdiction

This policy covers all undergraduate students, regardless of their college of enrollment, as well as graduate and professional students whose schools and programs do not have a separate policy and procedure. Cases will be heard by a panel drawn from an Academic Integrity Board made up of faculty and students representing the undergraduate schools and participating graduate programs.

Student Rights and Responsibilities in a Hearing

A student accused of an academic integrity violation, whether by a professor, teaching/graduate assistant, academic integrity coordinator or student is entitled to:

- A presumption of non-responsibility unless and until a panel determines that, based upon the evidence, it is more likely than not that the student engaged in a violation of academic integrity under this policy.
- Request a mediation/facilitation session prior to a hearing.
- Review the written evidence in support of the charge.
- Ask relevant questions.
- Offer an explanation as to what occurred.
- Present relevant material that would cast doubt on the correctness of the charge.
- Determination of the validity of the charge by an unbiased and objective panel and generally without reference to any past record of misconduct.

When responding to a charge of an academic integrity violation, a student may:

- Deny the charges and request a hearing in front of an Academic Integrity Board panel.
- Admit the charges and request a hearing to determine recommended sanction(s).
- Admit the charges and accept the imposition of sanctions by the academic integrity coordinator without a committee hearing.
- Request a leave of absence from the university. The academic integrity matter must be resolved prior to re-enrollment. A notation will be placed on the student's transcript indicating there is an unresolved academic integrity matter pending.
- Request to withdraw permanently from the university with a transcript notation that there is an unresolved academic integrity matter pending.

A student has the following responsibilities in resolving the charge of academic misconduct:

- Admit or deny the charge. This will determine the course of action to be pursued.
- Provide truthful information regarding the charges. It is a student code violation to provide false information to the university or anyone acting on its behalf.

Sanctions

If Found *Not* in Violation of the Academic Integrity Policy

If the charges of academic misconduct are not proven, no record of the allegation will appear on the student's transcript.

If Found in Violation of the Academic Integrity Policy

If, after a hearing, a student is found responsible for violation of the academic integrity policy or if a student has admitted to the charges prior to a hearing, the academic integrity coordinator may impose sanctions, including but not limited to the following:

- Issue a formal written reprimand.
- Impose educational sanctions, such as completing a workshop on plagiarism or academic ethics.
- Recommend to the instructor that the student fail the assignment. (A grade is ultimately the prerogative of the instructor.)
- Recommend to the instructor that the student fail the course.
- Recommend to the instructor that the student receive a course grade penalty less severe than failure of the course.
- Place the student on disciplinary probation for a specified period of time or until defined conditions are met. The probation will be noted on the student's transcript and internal record while it is in force.
- Impose suspension or expulsion.

Additional educational sanctions may be imposed. This list is not intended to be exhaustive.

A hearing panel may also elect to refer their recommended sanctions to the SCB Chairperson for determination if, for example, the recommendation departs from their standard recommendations.

Withdrawing from the course will not prevent the academic integrity coordinator or hearing panel from adjudicating the case, imposing sanctions, or recommending grade penalties, including a failing grade in the course.

A copy of the sanction letter will be placed in the student's academic file and may be reported in accordance with the Policy on Reporting of Student Conduct Violations.

Appeals

If a student believes the panel did not conduct a fair hearing or if a student believes the sanction imposed is excessive (i.e., suspension or expulsion), they may seek an appeal within 14 days of the original decision. For cases in which the decision resulted in suspension or expulsion, the appellate officer will be the Vice Provost of Educational Initiatives or the Vice Provost for Graduate Education. For all other cases, the appellate officer will be the Chair of the Student Conduct Board. Appeals are governed by Section VI of the university Student Conduct Code.

Administrative Record-Keeping Responsibilities

It is the responsibility of the academic integrity coordinators to keep accurate, confidential records concerning academic integrity violations. When a student has been found responsible for an academic integrity violation, a letter summarizing the allegation, the outcome, and the sanction will be placed in the student's official conduct file and may be reported out in accordance with the Policy on Reporting of Student Conduct Violations.

In addition, a report of the outcome of every formal accusation of student academic misconduct will be shared with the director of university student conduct programs, who shall maintain a record of each incident.

Multiple Offenses

When a student is formally accused of academic misconduct and a hearing is to be held, the academic integrity coordinator shall query the Office of Student Conduct and Community Standards (OSCCS) about the student(s) accused of misconduct. OSCCS shall provide any information in the OSCCS records concerning prior code violations of that student to the integrity coordinator. Such information will be used in determining sanctions if the student is found responsible for an academic integrity violation in the present case. Evidence of past misconduct generally may not be used to resolve the issue of whether a student has committed a violation in a subsequent case unless the hearing chair deems it relevant.

Reports to Faculty and Student Body

Periodic (at least annual) reports will be made to the students and faculty of their school concerning accusations of academic misconduct and the outcomes, without disclosing specific information that would allow identification of the student(s) involved.

*Endorsed by the Faculty Senate Council on March 16, 2010
Effective July 1, 2010
Updated December 4, 2014*

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Updated April 18, 2024*

University Affiliations

The accrediting organizations and memberships of the different areas of Washington University are listed below.

Additional information about professional and specialized accreditation can be found on the Office of the Provost website.

Washington University in St. Louis

Accreditation

- Higher Learning Commission

Memberships

- American Academy of Arts & Sciences
- American Association of Colleges & Universities
- American Council of Learned Societies
- American Council on Education
- Association of American Universities
- Hispanic Association of Colleges and Universities
- Independent Colleges and Universities of Missouri
- National Association of Independent Colleges and Universities
- National Council for State Authorization Reciprocity Agreements
- Universities Research Association

College of Arts & Sciences

Memberships

- American Academy of Physician Associates
- American Camp Association
- Association for Pre-College Program Directors
- Association of University Summer Sessions
- Diversity Abroad
- Forum on Education Abroad
- Higher Education Protection Network
- International Center for Academic Integrity
- International Educational Exchange
- Midwest Association of Pre-Law Advisors
- National Academic Advising Association
- National Association of Advisors for the Health Professions
- National Association of Fellowships Advisors
- North American Association of Summer Sessions
- Professional and Organizational Development Network

Office of Graduate Studies, Arts & Sciences

Accreditation — Office of Graduate Studies

- American Psychological Association Commission on Accreditation
- Psychological Clinical Science Accreditation System

Memberships

- American Academy of Physician Associates
- Association of Graduate Schools
(Founding member)
- Council of Graduate Schools
(Founding member)
- Midwest Association of Pre-Law Advisors
- Pod Network
- Student Affairs Administrators in Higher Education
- The Council of Independent Colleges

Sam Fox School of Design & Visual Arts

Accreditation — College of Art

- National Association of Schools of Art & Design
(Founding member)

Accreditation — College of Architecture

- Master of Architecture: National Architectural Accrediting Board
- Master of Landscape Architecture: Landscape Architectural Accreditation Board

Membership — College of Architecture

- Association of Collegiate Schools of Architecture

Accreditation — Mildred Lane Kemper Art Museum

- American Alliance of Museums

Membership — Mildred Lane Kemper Art Museum

- Association of Academic Museums and Galleries
- Association of Art Museum Directors
- College Art Association

Olin Business School

Accreditation

- Association to Advance Collegiate Schools of Business International
(Charter member since 1921)

McKelvey School of Engineering

Accreditation

- In the McKelvey School of Engineering, many of the undergraduate degree programs are accredited by the Engineering Accreditation Commission of ABET.

Membership

- American Society for Engineering Education

School of Law

Accreditation

- American Bar Association

Memberships

- American Association of Law Libraries
- American Society of Comparative Law
- American Society of International Law
- Association of Academic Support Educators
- Association of American Law Schools
- Central States Law Schools Association
- Clinical Legal Education Association
- Equal Justice Works
- Mid-America Association of Law Libraries
- Mid-America Law Library Consortium

- National Association for Law Placement
- National Association of Law Student Affairs Professionals
- Southeastern Association of Law Schools

School of Medicine

Accreditation

- American Speech-Language-Hearing Association, Council on Academic Accreditation in Audiology and Speech-Language Pathology (ASHA CAA)
- Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC)
- Liaison Committee on Medical Education
- Council on Education of the Deaf (CED)
- Missouri Department of Elementary and Secondary Education (DESE)
- American Occupational Therapy Association, Accreditation Council for Occupational Therapy Education (ACOTE)
- American Physical Therapy Association, Commission on Accreditation in Physical Therapy Education (CAPTE)
- Accreditation Council for Genetic Counseling (ACGC)
- Accreditation Council for Continuing Medical Education (ACCME)
- Accreditation Council for Pharmacy Education (ACPE)
- American Nurses Credentialing Center (ANCC)
- Association of Regulatory Boards of Optometry's Council on Optometric Practitioner Education (ARBO/COPE)
- Joint Accreditation for Interprofessional Continuing Education
- Accreditation Council for Graduate Medical Education (ACGME)

Membership

- Association of American Medical Colleges

School of Public Health

Accreditation

- Council on Education for Public Health

Affiliation

- Association of Schools and Programs of Public Health

Brown School

Accreditation

- Council on Social Work Education



School of Continuing & Professional Studies

Memberships

- American Association of Collegiate Registrars and Admissions Officers
- Council for Adult and Experiential Learning
- International Center for Academic Integrity
- National Academic Advising Association
- National Association of Student Personnel Administrators
- University Professional and Continuing Education Association

Note: Business-related programs in the School of Continuing & Professional Studies are not accredited by the Association to Advance Collegiate Schools of Business International.

University Libraries

Membership

- Association of Research Libraries

Graduate Policies

Please expand the sections below for more information about WashU's graduate policies and guidelines.

Academic Load Status for Financial Aid, Immigration, and Enrollment Verification

Graduate (Fall, Spring)

Status	Enrolled Units of Credit
Full time	9+ units
Half time	4.5-8.99 units
Less than half time	Fewer than 4.5 units

Graduate (Summer)

Status	Enrolled Units of Credit
Full time	6+ units
Half time	3-5.99 units
Less than half time	Fewer than 3 units

Certain courses may, due to appropriate curriculum and monitoring circumstances, be encoded to carry a load value higher than the actual academic credit awarded. Examples include certain engineering co-op experiences, doctoral research study and select clinical or practicum courses.

Registration in Courses

Registration dates are published in advance on the Office of the University Registrar's website. Late registration after the term begins is permitted only until the "add/drop" deadline relevant to a student's program. Students will not earn credit for courses in which they are not duly registered. Students may not register in courses that have conflicting meeting times.

Students may drop a course by the published deadline found on the Office of the University Registrar's website; dropped courses do not appear on the permanent academic record, and no grade is recorded. Students may withdraw from a course after the drop deadline and until the published withdrawal deadline. A withdrawal will result in a W notation associated with the course on the permanent record, including the transcript. Students who wish to drop or withdraw from a course are expected to follow steps to do so by the appropriate deadline. Failure to drop a course or withdraw by the published deadline may result in a failure of the course, and the transcript will reflect the failing grade.

Transfer Credit

Transfer credit is recorded on a student's permanent record. Courses transferred from other institutions of higher education do not have grades or grade points awarded and therefore do not apply toward a student's GPA.

Institutionally, Washington University participates in the Inter-University Exchange Program. Courses taken at Saint Louis University and the University of Missouri–St. Louis, according to the parameters documented, are approved to transfer to Washington University. The School of Law has a specific agreement in place with Saint Louis University for JD students only and under certain circumstances. Other transfer credit policies vary by school and program. Details may be found in the relevant academic sections of this *Bulletin*.

Tuition and Cost of Attendance

The cost of a Washington University education varies by school and, in some cases, by program. Tuition rates and fees are available through the Office of Financial Planning and Budget and are typically listed in greater detail (including fees and financial support options and procedures) on school websites.

Withdrawals and Refunds

If a student withdraws from Washington University after classes have begun, they must promptly file a request to withdraw in order to have appropriate registration and refund policies apply. These timelines vary by school and, in some cases, by program. Students should refer to the appropriate sections of this *Bulletin* for details.

University PhD Policies & Requirements

Academic PhD Programs

The following university-wide policies and practices apply to all PhD students regardless of school affiliation. They are specific to PhD program administration and PhD student experience. Schools/divisions may set stricter standards for students within their ambit, but they may not set standards that fall below university-wide policies. This page *does not* include those policies and practices that apply to the student community as a whole (e.g., the University Student Conduct Code).

Academic and Professional Integrity for PhD Students

The Academic and Professional Integrity Policy for PhD Students (PDF) continues to apply to all PhD students on the Danforth and Medical campuses, including dual-degree students when one of the degree programs is a PhD program.

Involuntary Leave of Absence

The Involuntary Leave of Absence Policy that applies to undergraduates was adopted to apply to all PhD students in 2014.

PhD Student Support Policies and Resources

New Child Leave

Full-time PhD students may request a New Child Leave to assume care for a new child. They should maintain their full-time student status. Students on New Child Leave are not expected to participate in mentored teaching or research experience for up to 60 consecutive calendar days (8 weeks) and will receive their current stipend support during this 60-day period. Students may request additional time off via a leave of absence without receiving a stipend (for up to a full semester) if approved by the student's department/program.

New Child Leave does not affect the student's full-time status and will not appear on the student's official transcript. New Child Leave must be taken within the first year after the child's date of birth or adoption. Students should contact their department/program to request a New Child Leave. Students who receive support from external agencies should consult the policies and guidelines of the sponsor as well as their Vice Dean or designee before requesting a New Child Leave.

Child Daycare Subsidy

The Child Daycare Subsidy is sponsored by WashU, and its purpose is to help PhD students with children under their care (who meet the requisite eligibility criteria) to meet the costs of child daycare while they pursue their studies.

The amount of the Child Daycare Subsidy awarded to eligible applicants is based on their financial need, the number of children they have enrolled in child daycare facilities, their child daycare expenses, and available funding. Eligible PhD students can expect the following:

- For one child, the maximum award is \$3,550 per Fall/Spring semester.
- For two children, the maximum award is \$4,550 per Fall/Spring semester.
- For three or more children, the maximum award is \$5,550 per Fall/Spring semester.

The subsidy amount cannot exceed the cost of the daycare facility.

The application is available on the Office of the Provost website.

Financial Policies

PhD Student Minimum Financial Award

The education of PhD students represents a significant commitment on the part of both WashU and the students admitted/enrolled. WashU typically funds most full-time PhD students for a minimum of five years (with the exception of post-professional PhD programs in the School of Medicine). Funding typically consists of full tuition scholarship and financial support to defray living expenses. Financial support may also be referred to as stipends or fellowships. Such financial support may be sourced internally from university-wide fellowships such as the Olin Chancellor's Fellowship (OCF), the McDonnell International Scholars Academy (p. 538), or school/program/department funds or from external sources (e.g., external research contracts and grants, external fellowships such as NSF GRFP).

The minimum PhD financial support rate for the 2026-27 academic year is \$37,853 annually, dispersed on a monthly basis while the student is enrolled full time. The rate applies to all PhD programs with the exception of post-professional specialty programs in the School of Medicine. Departments, schools, cross-school interdisciplinary programs, and other fellowship programs may choose to offer a rate higher than the established minimum, but they must do so for all students in their cohort. The eligibility criteria for PhD students receiving such financial support are outlined in the PhD Student Funding section below.

Students admitted to a part-time PhD program or on a part-time basis are not eligible for this minimum financial award.

PhD Student Funding

Financial support at or above the university-wide PhD minimum stipend rate allows PhD students to focus on their programmatic requirements, enabling them to make expeditious progress toward degree completion. This section predominantly pertains to PhD students, but it may apply to other graduate and professional students receiving financial support from the university.

Eligibility and Status

Students receiving university financial support must do the following:

- Enroll and maintain full-time student status in a graduate or professional program during the academic year;
- Make satisfactory academic progress in accordance with their degree program requirements; and
- Report to their degree program and university fellowship program (if applicable) any additional financial award(s) they receive or employment they engage in as outlined in this policy.

Because graduate students sometimes receive funding from multiple sources, it is the responsibility of the student, the student's department/degree program, and the Principal Investigator (if applicable) to understand and abide by the terms and conditions of each funding source.

Funding From Multiple Sources

Eligible students are encouraged to seek additional fellowships from external agencies. In addition to the funding amount, which can be more generous than that of a university financial award, these external fellowships are prestigious; they provide valuable training, experiences, and resources, and they enhance future career opportunities. In addition, securing external funding to support training and research is often an important component of the professional development of graduate students.

PhD students receiving university financial support who also receive an external fellowship or stipendiary award *may not* combine or "stack" the external award with the university financial support.* Students receiving an external fellowship or stipendiary award have two options.

Option 1: Supplementation of an External Fellowship or Stipendiary Award

If the sum of all external fellowship or stipendiary awards is less than the university financial support, the university funds may supplement the total amount of external funding to bring the student up to their guaranteed university fellowship or to the minimum university financial support for PhD students.

Students who receive external fellowship or stipendiary awards providing annual stipends that total more than the university financial support will retain the full external award(s) and will receive no additional university financial support for the duration of the external award.

- *Example One:* A student has a university award of \$38,000. The student receives a \$34,000 external award; the university will supplement the external award by \$4,000 to bring the student up to their university award of \$38,000.
- *Example Two:* A student has a university award of \$38,000. The student receives an external foundation award of \$42,000. Since the external award is greater, no university funds will be distributed while the student is supported by the external award.

Option 2: Deferral of University Fellowship or Stipendiary Award

Students receiving an external fellowship or stipendiary award during years one through five of study may, with program approval, defer up to one year of the university fellowship or stipendiary award made at the time of admission, if permissible based upon the award criteria from the external funding agency.

The university fellowship program and/or the student's home department or program can assist students when considering the benefits of each option. For cases in which a student has access to multiple sources of funding, external funds must be used before university funds are applied. University, school, and degree program funds will be the last source of funds to be applied to a student's financial support.

Schools and departments/programs may choose to offer an additional financial incentive to students who are awarded competitive external funding. Any such incentives must be uniformly awarded to all qualifying students within a degree program. Incentive awards given by school or degree programs to students who win external awards do not count toward the total university financial support; these incentive awards are in addition to the fellowship or stipendiary award.

All financial support will be applied in accordance with the terms and conditions of each funding source. In consultation with the student, departments/programs should ensure financial support is dispersed in the correct amount and in accordance with applicable policy.

* Limited exceptions may occur for instances in which the external award is explicitly contingent on the continuation of the university stipendiary award. In such instances, the decision on stacking is at the discretion of the school dean or their designee for support provided by the school or by a cross-school interdisciplinary program and at the discretion of the fellowship administrator for university-wide fellowships (e.g., OCF, MISA).

PhD Student Employment

Full-Time Employment

University financial support that is provided at or above the university-wide PhD minimum stipend rate is intended to enable students to focus exclusively (i.e., full time) on their studies. Students who receive university financial support at or above the university-wide minimum PhD stipend rate are not permitted to hold full-time employment.

Students who perform full-time employment during the summer term will have their university fellowship or stipendiary award stopped for the duration of their full-time employment. Students are also subject to any school or program-based policies regarding employment, which may be more restrictive. Students should consult their school and degree program for approval.

Part-Time Employment

To ensure that students receiving university financial support can focus on their programmatic requirements and make expeditious progress toward degree completion, part-time employment should not exceed an average of 10 hours per week. This allowance may be restricted by schools/departments/programs to a smaller number of hours per week to conform with a student's funding source policies and with federal time and effort reporting guidelines (as applicable).

If a student and that student's advisor(s) believe that additional part-time employment will enhance the student's outcomes and is unlikely to hinder timely progress toward degree completion, the student may request approval for an exception through their school's graduate program office. Any such exceptions will be documented and kept on file in the school. For students supported on federal grants, it is the school's responsibility to ensure adherence to any constraints derived from time and effort reporting.

To reiterate, students are also subject to any school or department/program-based policies regarding employment, which may be more restrictive. Students should consult their school and degree program for approval prior to undertaking any part-time employment.

Implications for International Students

International students attending WashU on a visa must consult with the Office for International Students and Scholars (OISS) before accepting any external or internal employment, either full-time or part-time.

Tax Implications

Please visit WashU's Financial Services website for more information about the taxability of stipend payments. Students are encouraged to consult a personal tax advisor to ensure that they are adhering to federal and state laws and Internal Revenue Service (IRS) regulations.

PhD General Requirements and Policies

To earn a PhD at WashU, a student must complete all courses required by their department/program; maintain satisfactory academic progress; pass certain examinations; fulfill residence and mentored experience requirements; write, defend, and submit a dissertation; and file an Intent to Graduate in Workday Student. **Note:** Individual schools and departments/programs may have more restrictive policies than the university-wide policies stated herein.

Residence Requirement

Each full-time PhD student must spend at least one academic year enrolled full-time at Washington University in St. Louis. Any exceptions must be approved by the dean of the student's respective school and the Vice Provost for Graduate Education.

Students admitted to a part-time PhD program must be enrolled in at least 3 units for each Fall/Spring semester until the unit requirements for their program are satisfied

Time Limit for PhD Enrollment Eligibility

Full-time PhD students are eligible for enrollment at Washington University in St. Louis for a maximum of 14 Fall/Spring semesters (seven years). Enrollment includes traditional course registration and 0-unit courses that carry a full-time enrollment status. Semesters of approved leaves of absence do not count toward this time limit.

Students admitted to a part-time PhD program are eligible for enrollment at Washington University in St. Louis for 18 Fall/Spring semesters (nine years). Semesters of approved leaves of absence do not count toward this time limit.

Full-time PhD students and those admitted to part-time PhD programs may petition for an enrollment eligibility extension for a maximum of one academic year. Petitions must be directed to the student's dean or their designee. Supplemental petitions will not be permitted. In unusual circumstances, the dean or their designee may appeal to the Vice Provost for Graduate Education on behalf of a particular student.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying examination process varies considerably according to the department/program, and the structure and schedule of the qualifying exam are set by the department/program in accordance with best practices within their field. The department/program is responsible for documenting the process properly and ensuring the process is clearly outlined to their students. Each PhD program is responsible for notifying the school registrar or the appropriate record custodian of the student's outcome, whether successful or unsuccessful.

Mentored Experience Requirement

As part of the university-wide degree requirements, PhD students and some master's students (i.e., MFA in Writing and MFA in Dance) at WashU must complete a department-/program-defined Mentored Experience Requirement (MER). The MER is an accomplishment that is noted on the student's academic record when complete. Each department/program established a Mentored Experience Implementation Plan (MEIP) in which required MER units and pathways for completion are defined and specified. The MEIP typically consists of Mentored Teaching Experiences (mentored activities designed to achieve competencies in teaching at basic and advanced levels) and/or Mentored Professional Experiences (mentored activities focused on the development of skills relevant to individual, intended career and professional outcomes). Students enroll in Mentored Teaching Experience courses and/or Mentored Professional Experience courses to signify progression toward completing the MER.

Dissertation

As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation. Each PhD candidate will form a Research Advisory Committee (RAC) approved by their department/program and by their school's graduate program oversight body. The RAC will approve the subject and approach of the dissertation, which will be evidenced by the student's completion of the Title, Scope and Procedure requirement.

The RAC should consist of at least three full-time Washington University in St. Louis faculty members who are authorized to supervise PhD students and who have appropriate expertise in the proposed field of study. One of these faculty members must be the student's primary research advisor/mentor. Additional members, including external members with active research programs at outside institutions, may serve on the RAC subject to approval by the school's graduate program oversight body.

- For cross-school/interdisciplinary PhD programs, the approvals referenced above should be obtained from the graduate program oversight body of the school of the primary research advisor/mentor.
- For a PhD program offered in partnership with an external academic institution, one full-time faculty member of the partner institution who is authorized to supervise PhD students and who has appropriate expertise in the proposed field of study may serve on the RAC as part of the three-member minimum requirement.

A Title, Scope and Procedure form for the dissertation must be signed by the RAC members and by the program chair. Full-time students must submit the Title, Scope and Procedure form to the school registrar or the appropriate record custodian at least six months before the degree is expected to be conferred or before the beginning of the fifth year of full-time enrollment, whichever is earlier. Students enrolled in a part-time PhD program must submit the Title, Scope

and Procedure form to the school registrar or the appropriate record custodian at least six months before the degree is expected to be conferred or before the beginning of the sixth year of enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a template that provides instructions regarding the format of the dissertation are available through the website of the Office of the Provost; both of these should be read carefully at every stage of dissertation preparation.

Each student is required to make the full text of the dissertation available to the committee members for their review at least one week before the dissertation defense. Most degree programs require two or more weeks for the review period; students should check their department/program's policies.

Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The doctoral dissertation committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs offered by Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution who are authorized to supervise PhD students and who have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant school's graduate program oversight body.

The approval processes outlined under RAC in the Doctoral Council bylaws also apply to the doctoral dissertation committee, including approval of each dissertation committee by the host school's graduate program oversight body/bodies.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance; if one of those four cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair would necessitate rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in-person or by utilizing a virtual or hybrid format.

Dissenting Vote(s) at a Dissertation

Faculty members of the Doctoral Dissertation Committee normally will examine the PhD candidate and vote on whether to approve the dissertation. In the vast majority of cases, these votes are unanimously for approval. In the rare case that there are faculty concerns that cannot be resolved through subsequent revisions and which therefore result in dissenting (negative) vote(s), the committee chair will refer the case to the Vice Provost for Graduate Education for resolution.

In the case of a single dissenting vote, the committee chair and the dissenting voter will be asked to explain the reasons for the dissent in a letter to the Vice Provost for Graduate Education. After consulting with these and other members of the committee, the Vice Provost for Graduate Education may then decide to accept the majority opinion and approve the dissertation, or they may seek the opinion of an additional reader. After considering this additional evidence, the Vice Provost for Graduate Education may approve or decline to approve the dissertation.

In the case of two or more dissenting votes, the committee chair and the dissenting voters will again be asked to explain the reasons for the dissent. The Vice Provost for Graduate Education may then decide to decline to approve the dissertation. Alternatively, they may ask the department or graduate program to name a Resolution Committee, consisting of three tenured or tenure-track professors at Washington University in St. Louis or elsewhere who did not serve on the original committee, to reexamine the dissertation and the candidate. A unanimous positive recommendation from this committee will be required in order for the Vice Provost for Graduate Education to approve the dissertation. Failure of a department or graduate program to identify three faculty members to serve on this Resolution Committee will be tantamount to a rejection of the dissertation.

Dissertation Submission

After the successful defense of their dissertation, the student must submit an electronic copy of the dissertation online to the university by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the Director of Graduate Studies for consideration and approval. The submission website requires students

to choose from among publishing and copyrighting services offered by ProQuest ETD Administrator, but the university permits students to make whichever choices they prefer. Washington University in St. Louis doctoral students may initially request to embargo the public release of their dissertation for a specified period of six months, one year, or two years. Renewals beyond the initial embargo may be granted by the Vice Provost for Graduate Education. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the department/program chair or director, to the school registrar or the appropriate record custodian. Students who complete all degree requirements and defend their dissertations successfully have not completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by their school of record.

Degree Candidacy Extension

Degree Candidacy Extension (DCE) refers to a non-enrolled status available, under exceptional circumstances, to full-time PhD students who have completed all PhD degree requirements with the exception of the dissertation.

Extended degree candidates are not registered for any courses, have no enrollment status, and are ineligible for financial awards or support, benefits, and resources available to enrolled Washington University in St. Louis students. Once a student enters DCE, they may not register or enroll with Washington University in St. Louis as a student in their intended degree program in a future term.

DCE status may be assigned to full-time students in a variety of situations, including but not limited to the following:

- PhD students who do not complete their dissertation after exhausting the time allowable for PhD enrollment status due to circumstances beyond their control (see Time Limit for PhD Enrollment Eligibility earlier on this page);
- PhD students who secure full-time employment prior to the completion of their dissertation and who have established a timeline for the completion of the dissertation requirement; and
- PhD students who have exhausted their university financial support period as defined by their school or program prior to the completion of their dissertation and who have established a time line for the completion of the dissertation requirement.

DCE status may be inappropriate for international students dependent on a U.S. visa, and such students may not be eligible for this status. International students should always consult with an OISS advisor prior to making an enrollment status change. In addition, students admitted as part-time PhD students are not eligible for DCE status.

DCE status is not the rule. Rather, it is assigned as an exception. Students must obtain the recommendation of their department/program leadership and petition the Vice Dean for Graduate Education (or equivalent) within their school to request to enter DCE status. If the petition is successful, the DCE status is conferred for the period of one year, after which an additional petition should be made and approved. Students seeking to remain in DCE status are obligated to provide a written report on their dissertation's progress annually to

their department to secure their approval for subsequent petitions. Individual departments may require additional checkpoints to ensure progression. Students may remain a PhD candidate in this status for a maximum of three calendar years.

If three calendar years pass from the first semester in which a student was placed on DCE and the student has not successfully completed all degree requirements, then that student has officially forfeited their eligibility to earn the PhD degree. Under these circumstances, the student may petition the Vice Provost of Graduate Education with the support of their department chair and school vice dean to be allowed to complete the degree outside of the three-year extension period. The petition will include a timeline for completion. The Vice Provost of Graduate Education reserves the right to deny any such request.

PhD Mentored Experiences

The Mentored Experience Requirement (MER)

As part of the university-wide degree requirements, PhD students and students in certain master's programs (i.e., MFA in Writing and MFA in Dance) at Washington University in St. Louis must complete a program-defined Mentored Experience Requirement (MER). The MER is an accomplishment that is noted on the student's academic record when complete. Each program established a Mentored Experience Implementation Plan (MEIP) in which required MER units and pathways for completion are defined and specified. The MEIP typically consists of Mentored Teaching Experiences (mentored activities designed to achieve competencies in teaching at basic and advanced levels) and/or Mentored Professional Experiences (mentored activities focused on the development of skills relevant to individual, intended career, and professional outcomes). Students enroll in Mentored Teaching Experience (MTE) courses and/or Mentored Professional Experience (MPE) courses to signify progression toward completing their MER.

Mentored Experience Implementation Plan (MEIP)

An MEIP is a program-defined plan for students to complete their MER and engage in mentored teaching activities and/or mentored professional activities. MEIPs include the philosophy related to the role of teaching or professional experiences within the discipline, the program's plan for preparatory engagement, the normal sequence of opportunities for a student, and the number of MER units required. Each of these terms are defined within this section.

MEIPs were updated by programs during the 2024-25 academic year, and new plans are available under each program's "Mentored Experience Implementation Plan" tab in the *Bulletin*. Plans were effective as of Fall 2025 and applied to all students who had not yet completed their MER. Any revised plans in this Bulletin would be effective for students entering their program in Fall 2026.

Preparatory Engagement

Preparatory Engagement activities represent an introduction to the foundational skills associated with teaching or communication. Preparatory Engagement represents an important foundational component to training in pedagogy. As such, all MEIPs contain required pedagogical preparation before students are permitted to engage in assisting or teaching in a classroom.

Mentored Teaching Experiences (MTEs)

An MTE represents a collaborative engagement between a student and a faculty mentor wherein the student reflects on and interprets disciplinary knowledge; identifies multiple ways to represent disciplinary content; adapts content to students' abilities and prior knowledge; and develops methods to assess and improve the teaching and learning process in a discipline. A student engaged in an MTE will have an assigned faculty mentor supporting the student's development into an educator able to communicate and/or evaluate disciplinary knowledge.

Two categories of MTE exist at WashU: Assistantships in Instruction (AI) and Mentored Independent Teaching (MIT). Each MTE engagement is weighted by MER units to recognize the different levels of effort involved.

Assistant in Instruction (AI)

An AI experience is one in which the student is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. During the AI, the student receives mentorship from the faculty member in best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students receive regular informal feedback or evaluation from the mentor throughout the semester, as well as a final evaluation from the mentor and course evaluations from students enrolled in the course as part of the normal course evaluation process.

The student is formally listed as instructional support via Workday in the course listings. In general, AI assignments connect to undergraduate courses or to lower-level graduate courses that the student has taken previously.

MER units for AI experiences are determined by the program based on the level of activity needed for each assignment:

- 5 MER units are equivalent to an average of 5 hours per week of engagement; students enroll in their program's course numbered 8005 during the semester of engagement.
- 10 MER units are equivalent to an average of 10 hours per week of engagement; students enroll in their program's course numbered 8010 during the semester of engagement.
- 15 MER units are equivalent to an average of 15 hours per week of engagement; students enroll in their program's course numbered 8015 during the semester of engagement.

Mentored Independent Teaching (MIT)

An MIT is a semester-long experience for students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of their MER. Throughout the semester, students receive regular feedback from a faculty mentor based on classroom observation conducted a few times per semester or other acceptable review mechanisms. The student should ask for guidance and support from the faculty mentor while navigating the responsibilities of independent teaching. Faculty mentors are also required to complete the final evaluation for the student.

An MIT experience may not be a requirement or option under every program's MEIP. Each MIT engagement will equate to 20 MER units. The 20 MER unit assignment accounts for the considerable level of preparation and consultation each PhD student needs to engage in as part of this introductory experience toward acquiring the skills required for independent teaching. Students enroll for the semester of engagement under their program's course numbered 8020.

Mentored Professional Experiences (MPEs)

MPEs are unpaid experiences that allow students to develop skills and experiences relevant to their intended career outcomes. These experiences could include, for example, opportunities in industry, communication and outreach, government or policy, consulting, or higher education administration. The duties and responsibilities of the MPE should be intellectually substantive and offer opportunities for the student to develop new skills and experiences.

An MPE experience may not be a requirement or option under every program's MEIP. Each MPE engagement will equate to 20 MER units. The 20 MER unit assignment accounts for the considerable level of preparation and time needed for this engagement. An MPE should involve at least 150 hours (and not more than 180 hours) per engagement. Students enroll for the semester of engagement under their program's course 8120.

Optional MER Activities

Some programs allow for students to participate in additional, optional MTE or MPE engagements. If allowed, the program's MEIP will list the requirements for a Teaching Intensive Pathway (TIP) or a Professional Intensive Pathway (PIP).

Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended MTEs. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field.

Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or want to benefit from MPEs. An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Similar to normal MPE experiences, students who participate in the PIP do not receive compensation associated with their MPE.

Post-MER Completion Teaching Activities

To be eligible to participate in an additional teaching activity at WashU, students must complete their MER as defined by their program's MEIP prior to undertaking optional elective instructional activity. Any independent teaching for pay that occurs after the completion of the MER must meet the spirit of the part-time employment policy or otherwise students must request an exception.

Instructional Support

At the completion of the student's MER as defined in the MEIP, students may elect to pursue additional instructional opportunities at WashU as a non-MTE AI or a similarly situated role. These additional opportunities are subject to the approval of their primary advisor and their department/program as well as the existence of such a position. These students will be paid an hourly rate.

Instructor or Co-Instructor of Record

At the completion of a student's MER requirements as defined in the MEIP, the student may elect to pursue instructor opportunities at WashU as an independent instructor. These opportunities are subject to the approval of the student's primary advisor and their department/program as well as the existence of such a position. Students who have completed their MERs must demonstrate the requisite experience and training in pedagogy to engage in teaching at the fully independent level. These students are eligible for compensation in accordance with the adjunct professor collective bargaining agreement.

Current MEIPs

Arts & Sciences

- Anthropology, PhD, Archeology Concentration (p. 83)
- Anthropology, PhD, Biological Anthropology Concentration (p. 90)
- Anthropology, PhD, Sociocultural Anthropology Concentration (p. 96)
- Art History & Archaeology, PhD (p. 113)
- Chemistry, PhD (p. 140)
- Classics, PhD (p. 158)
- Comparative Literature, PhD (p. 170)
- Dance, MFA (p. 367)
- Earth, Environmental, and Planetary Sciences, PhD (p. 198)
- East Asian Languages and Cultures, PhD (p. 217)
- Ecology and Evolutionary Biology, PhD (p. 129)
- Economics, PhD (p. 236)
- Education, PhD (p. 254)
- English and American Literature, PhD (p. 269)
- English and Comparative Literature, PhD (p. 275)
- French and Francophone Studies and Comparative Literature, PhD (p. 456)
- French and Francophone Studies, PhD (p. 452)
- German and Comparative Literature, PhD (p. 178)
- Germanic Languages and Literatures, PhD (p. 185)
- Hispanic Studies and Comparative Literature, PhD (p. 465)
- Hispanic Studies, PhD (p. 460)
- History, PhD (p. 314)
- Mathematics, PhD (p. 340)
- Music, PhD, Music Theory Concentration (p. 351)
- Music, PhD, Musicology Concentration (p. 355)
- Philosophy, PhD (p. 378)
- Philosophy-Neuroscience-Psychology, PhD (p. 384)
- Physics, PhD (p. 397)
- Political Science, PhD (p. 416)
- Psychological & Brain Sciences, PhD (p. 430)
- Sociology, PhD (p. 476)
- Statistics and Data Sciences, PhD (p. 499)
- Writing, MFA (p. 279)

Business

- PhD Program

Engineering

- Biomedical Engineering PhD
- Biomedical Engineering PhD-MD
- Computational & Data Sciences, PhD
- Computer Engineering, PhD
- Computer Science, PhD
- Electrical Engineering, PhD
- Energy, Environmental, & Chemical Engineering, PhD
- Imaging Science, PhD
- Materials Science & Engineering, Interdisciplinary PhD
- Mechanical Engineering, PhD
- Systems Science & Mathematics, PhD

Medicine

- Division of Biology & Biomedical Sciences Programs
 - Biochemistry, Biophysics & Structural Biology, PhD
 - Biomedical Informatics & Data Science, PhD
 - Cancer Biology, PhD
 - Computational & Systems Biology, PhD
 - Developmental, Regenerative, & Stem Cell Biology, PhD
 - Immunology, PhD
 - Molecular Cell Biology, PhD
 - Molecular Genetics & Genomics, PhD
 - Molecular Microbiology & Microbial Pathogenesis, PhD
 - Neurosciences, PhD
 - Plant & Microbial Biosciences, PhD
- Medical Physics, PhD
- Movement Science, PhD
- Nursing Science, PhD
- Rehabilitation and Participation Science, PhD
- Speech and Hearing Sciences, PhD

Public Health

- Public Health Sciences, PhD

Brown School

- Social Work, PhD

Additional information including forms, resources, and FAQs are available on the Mentored Experiences page of the Office of the Provost website.

Office of Graduate Studies

The Office of Graduate Studies (OGS), Arts & Sciences, administers master's and PhD degrees for departments and programs within the School of Arts & Sciences. Graduate students in Arts & Sciences programs are supported administratively by the OGS.

Governance

The OGS, Arts & Sciences, is led by the Vice Dean of Graduate Studies. The Vice Dean also works closely with the OGS, Arts & Sciences, Advisory Council, which consists of nominated and selected faculty from across Arts & Sciences, student representative(s) from Arts & Sciences graduate programs (if available), and Arts & Sciences staff. The Advisory Council advises the Vice Dean and the OGS, Arts & Sciences, team on policies, the implementation of strategic initiatives, and emerging issues and opportunities related to graduate education in Arts & Sciences. The Council also provides reviews of curricular proposals.

Contact Information

Office of Graduate Studies, Arts & Sciences
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Washington University in St. Louis
One Brookings Drive, MSC 1187-0012-02
St. Louis, MO 63130-4899

Phone: 314-935-6880
Email: artscigrads@wustl.edu
Website: <https://gradstudies.artsci.wustl.edu/>

Doctoral Degrees

The PhD is not only an exploration of the body of knowledge of a given discipline, it is also an original contribution to that discipline. To the extent that doctoral education has been successful, the student's relationship to learning is significantly changed. Having made a discovery, developed an insight, tested a theory, or designed an application, the PhD recipient is no longer a student but rather a colleague of the faculty. It is for this reason that the PhD is the highest degree offered by a university and PhD graduates of Washington University participate in both research and teaching.

The core mission of PhD programs is to prepare graduate students for a range of professional careers. These careers include teaching at research universities and institutions of higher education as well as making valuable contributions to society by applying the analytical and creative skills required for scholarship to careers in the business, government, and nonprofit sectors. The Office of Graduate Studies, Arts & Sciences, works with other university offices to ensure that students have the opportunity to develop these transferable skills.

Among the critical components the university provides for these purposes are a small and select graduate student body, faculty members dedicated to scholarly work, and the physical facilities required for research. Washington University compares favorably to the finest graduate institutions in the world in these areas. However, the key ingredients of PhD completion must be provided by the student: a love of learning and a desire to increase the sum of human knowledge. In addition, motivation and perseverance are prerequisites for success in PhD programs.

Academic Information

General Requirements for PhD Degrees in Arts & Sciences

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

Enrollment and Registration

Students newly admitted to graduate programs in Arts & Sciences receive information about creating a WashU Key (a university login identity credential) from the university. The WashU Key and password are used to access Workday to register for courses online during open registration periods. All registrations require online approval by the student's faculty advisor and are monitored by the Office of Graduate Studies, Arts & Sciences.

Regular Enrollment

Students admitted to a PhD program in Arts & Sciences must maintain full-time continuous enrollment throughout the approved length of their programs. Most of our PhD programs will be completed within five years. During those years, students will be considered full-time if they have one of the following statuses:

- They are registered for 9 or more graduate-level (5000 and above) course units; *or*
- They are registered in a 0-unit course (ASGS 9000 Full-Time Graduate Research/Study or ASGS 9001 Full-Time Graduate Study in Absentia) that indicates the student's full-time engagement in research or academic writing. **Note:** Enrollment in ASGS 9000 Full-Time Graduate Research/Study or ASGS 9001 Full-Time Graduate Study in Absentia is not viewed as a full-time enrollment status by Veterans Affairs (VA). Students expecting to use VA benefits must be enrolled in 9 credit-bearing units.

During a student's period of regular registration, they may have a need or opportunity to study away from Washington University. Recommendations from departments for students' registration in absentia will be considered by the Office of Graduate Studies, Arts & Sciences, on a case-by-case basis. If approved by the Office of Graduate Studies, Arts & Sciences, the student will be registered for ASGS 9001 Full-Time Graduate Study in Absentia. Students may be allowed to register for ASGS 9001 Full-Time Graduate Study in Absentia for up to four consecutive or nonconsecutive fall/spring semesters. Semesters in which a student is registered in absentia are counted as part of the student's program length. International students are not eligible for ASGS 9001 Full-Time Graduate Study in Absentia.

PhD students in Arts & Sciences who are fully funded, registered full-time, within their program length, and making satisfactory academic progress will receive tuition remission for credits required for their A&S program(s) of study to which they have been admitted. They will also receive a 90% subsidy of health insurance, dental insurance, and wellness fees. Tuition each semester will be calculated based on the number of registered course units, where applicable.

Enrollment Extension

Students may be permitted to register for up to one additional year beyond their program length. When recommended by their department and approved by the Office of Graduate Studies, Arts & Sciences, these students will be registered in a 0-unit course (ASGS 9002 Full-Time Graduate Study Extension) that confers full-time enrollment status. Students registered for ASGS 9002 Full-Time Graduate Study Extension may or may not receive stipend support and may or may not be eligible to receive other benefits available to full-time PhD students in Arts & Sciences, including health insurance and wellness fee subsidies.

Students may be registered for ASGS 9002 Full-Time Graduate Study Extension for a maximum of two semesters. Students who do not complete their programs within this time limit must either withdraw from the program or be designated as Degree Candidacy Extension.

Degree Candidacy Extension

Upon the recommendation of their departments and the approval of the Office of Graduate Studies, Arts & Sciences, students who do not complete their PhD degrees within their program length and potential one-year enrollment extension may remain doctoral candidates for up to three years. Extended degree candidates are not registered for any courses, have no enrollment status, and receive none of the benefits available to registered Washington University students, including student loan deferment.

Part-Time Students

PhD candidates are not admitted as part-time students. Part-time status will be calculated strictly on the basis of registration in fewer than 9 course units without ASGS 9000-level registration. Part-time enrollment will be permitted only in extraordinary circumstances.

Courses and Tuition Remission

Each doctoral program determines the coursework required for the degree and supplemental training a student may pursue to enhance their field of study (e.g., a graduate certificate or coursework beyond the program requirements). Tuition remission will be granted for required credits for a program of study to which a student has been admitted and, if applicable, an Arts & Sciences graduate certificate program or coursework approved as necessary/central to their training by their Director of Graduate Studies (DGS). This credit-bearing coursework should be taken across four semesters of enrollment, with additional credit-bearing coursework as approved.

To be eligible for tuition remission, courses must be offered at the graduate level (course numbered 5000 and above), taken for a grade, and approved in advance by the student's advisor and program as necessary for the student's degree. Audited courses are not eligible for tuition remission and cannot count toward full-time status in a given semester. Students should consult their advisors regarding course selection.

When certain conditions apply, graduate students may be permitted to register for Arts & Sciences courses numbered below 5000, but those courses will not be covered by tuition remission and will not count toward the student's degree requirements. Those courses, then, will require that the student pay tuition for them unless the courses are taken along with 9 units of approved graduate-level coursework during the relevant semester. For more information, please see the Arts & Sciences Course Numbering Guidelines.

Arts & Sciences graduate students are not allowed to take courses in the WashU School of Continuing & Professional Studies (CAPS). Additionally, tuition remission is not available for Summer Session courses.

Outside of the stipulations noted above, graduate students in Arts & Sciences may enroll in English Language Program (ELP) courses. The Office of Graduate Studies (OGS) will pay tuition from Arts & Sciences funds for a maximum of 6 units of ELP courses throughout a student's graduate degree program. The tuition and course costs for enrollment in ELP units beyond 6 must be covered by the student or department.

Students pursuing a certificate or an unrelated master's degree in addition to their PhD must consult the departments and advisors about credit sharing between the programs. Please consult the policy on graduate certificates (p. 50).

Online Courses

Online courses are not applicable to Arts & Sciences degree programs. Therefore, students may not enroll in online courses offered by other schools at Washington University nor attempt to transfer courses, taken at other institutions, that were delivered online.

Grades

Grade options available for graduate students in Arts & Sciences are as follows:

Grade/ Notation	Value
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0
P	Pass
NP	No Pass
I	Incomplete (work still pending for assessment of final grade)
W	Withdrawal
R	Retake
L	Successful audit
Z	Unsuccessful audit
T	Transfer (coursework transferred in)
EC	Exam Credit

In the rare event that an instructor is unable to submit a grade by the grade deadline, an N, signifying that the grade has not yet been submitted, may temporarily appear as a transcript notation on the student's record. Grades that are not posted within 120 days of the last day of the semester for which the N notation was posted will result in these temporary notations being automatically changed to a grade of F (or, in the case of a course taken as Pass/No Pass, to a grade of NP).

Grades cannot be changed after the sealing of a student's transcript, which follows conferral of the student's degree.

Zero-unit ASGS 9000-level courses will have only the Pass/No Pass grade option.

Grade Appeals

If a student receives a grade they believe to be unjustified, whether for a single assignment or for the course grade as a whole, they have the right to discuss any grade(s) with their instructor and to appeal the grade(s). (Students considering appealing their grades are welcome to consult with their advisor or the Office of Graduate Studies, Arts & Sciences, Student Affairs team; contact artscigrads@wustl.edu to connect with the Office of Graduate Studies, Arts & Sciences, Student

Affairs team. Neither the advisor nor the Office of Graduate Studies, Arts & Sciences, Student Affairs team may make any decisions with regard to the appeal, but they can inform students about possible options for approaching the appeal.)

Grounds for Appeal

Sufficient grounds for appeal include clerical or mathematical errors in calculating the grade; inequitable use of the syllabus's grading rubric or policies; and grading impacted by issues beyond the course content.

Students should be aware that an appeal may include a complete review of the student's work in the course as a whole, which may result in a grade being either raised or lowered.

Students may not appeal to raise their grade by completing additional assignments (i.e., "extra credit") or by submitting late work except in the case of an official Incomplete.

If a student believes that the grade is the result of identity-based discrimination, they should make a report to the Office of Institutional Equity rather than file a grade appeal through this process. In addition, grades that are a result of sanctions for a violation of Academic Integrity (as determined by the Academic Integrity Board) are not eligible for appeal through this process.

Timing of Appeals

Grade appeals must be initiated within 30 days of the grade being posted and must be addressed by the instructor in a timely manner. Grade appeals in the semester prior to the student's graduation must be raised immediately and addressed on an expedited timeline so that the appeal may be resolved prior to the conferral of a degree and the sealing of the student's transcript. A grade appeal submitted after a student graduates will not be reviewed as grade changes cannot be made following degree conferral.

Appeals Process

- The student must first appeal the grade with the instructor. The appeal must be in writing, reference this grade appeal policy, and outline the reasons for the appeal. The instructor must reply to the student in writing within two weeks of the student's request, providing detailed justification for retaining the assigned grade or confirming that the grade will be changed in light of the student's appeal.
- If the student's written concerns have not been met by the instructor's justification, they may raise the grade appeal to the director of graduate studies (DGS) in the appropriate department or program (based on the department or program that owns the course and not on the student's program of study) within one week of the instructor's response. The subsequent appeal must be submitted in writing, and it must reference this grade appeal policy, respond to the instructor's detailed justification, and explain why the student believes there remains cause for appeal. Disagreement with the instructor's professional judgement is

insufficient grounds for further appeal, and appeals to the DGS that merely reiterate a student's initial concerns will not be considered. The DGS will review the appeal and provide a written response to the student within three weeks.

- In the rare instance that the student believes further appeal to be necessary, the student may direct a final appeal to the Vice Dean of Graduate Studies. If a student wants to pursue a grade appeal at this level, the appeal must be in writing and be submitted within one week of the written response from the DGS. The student's statement should acknowledge both the instructor's and the DGS's responses and explain why the student believes there remains cause for appeal. Disagreement with the instructor's or DGS's professional judgement is insufficient grounds for further appeal. The Vice Dean of Graduate Studies must respond in writing within four weeks of the student's appeal. The decision of the Vice Dean is final.

Incomplete Grades

Students who are not making satisfactory progress in a course should withdraw from the course prior to the published withdrawal deadline. However, should a student experience medical or acute personal challenges after the withdrawal deadline that make the satisfactory completion of coursework difficult or unlikely, they may be eligible for a grade of Incomplete. In extreme circumstances, students may want to discuss a Medical Leave of Absence with their advisor.

To request a grade of Incomplete (I) from one or more instructors, students must take the following steps with each instructor:

1. The student should meet with the instructor before the final examination or due date for the final paper/project to request the Incomplete.
2. If the instructor grants the Incomplete, the student and instructor should agree on the scope of the work remaining to complete the course and a date when it will be submitted. This date should be within 120 days of the last day of the semester in which the course is being taken. The instructor should confirm with the student, in writing, the details of the work with respective deadlines.

Whether or not to grant an Incomplete is at the instructor's discretion. When determining whether to do so, the instructor should consider whether the student has consistently attended and engaged with the course (for example, whether the student has submitted all assignments except the final assignments/assessments) and made satisfactory progress in the course. Incompletes should not be granted unless the student has completed at least two thirds of the assignments/assessments for the course.

If sufficient work has not been completed, the grade of Incomplete will not be feasible. In such situations, the instructor will submit whatever final grade the student has earned. The student may retake the course at a later time if they choose. (For information about retaking a course, see below.)

If an Incomplete is granted, the work should be completed in the time frame agreed upon with the instructor. However, this time frame should not extend more than 120 days from the last day of the semester in which the Incomplete is granted/the course for which the Incomplete is granted is taken.

Failure to submit completed work and for the earned grade to be posted within 120 days of the last day of the semester in which the Incomplete was granted will result in the grade of Incomplete being automatically changed to a grade of F (or, in the case of a course being taken as Pass/No Pass, to a grade of NP).

Further, students cannot have a grade of Incomplete on their transcripts when their degrees are conferred. Thus, students who are expecting to graduate at the end of the semester in which the course being considered for an Incomplete was taken should not request or be granted a grade of Incomplete.

Any student who does have an Incomplete on their transcript at the time of certification and degree conferral will have the Incomplete changed to a grade of F (or, in the case of a course being taken as Pass/No Pass, to a grade of NP).

Grades cannot be changed after the conferral of a student's degree.

Note: If an Incomplete is granted, students cannot be added to the Canvas shell of a subsequent offering of the course in order to complete the previous enrollment. Instead, at the instructor's request, the student can be given access to the original course shell, and the instructor can reopen assignments within that course shell. All work for an Incomplete should occur within the original course's Canvas course shell or outside of Canvas entirely.

Retaking a Course

Graduate students may be allowed to retake a course in which they have earned a B or lower (grades of P for Pass, A, B+, and Incomplete are not eligible for retakes; audits — whether successful or unsuccessful — are also not eligible for retakes) once with prior permission from their department or program. The department may refuse the student's request. If permission to retake a course is granted, both registrations will show on the transcript; however, only the grade and units of the enrollment with the highest grade will be used to calculate the student's GPA. The other attempt will have the letter R (denoting the retake) placed next to the grade. A student who retakes a course without prior permission might not receive permission retroactively. Please note that courses that are transferred in to Washington University as equivalents to a previously completed course will also be included in course attempts.

Transfer Credit

Students who have completed graduate-level coursework or a graduate degree at an institution prior to joining Washington University may request to transfer a portion of that credit toward the coursework in their Washington University degree program.

Graduate-Level Courses Completed Prior to Joining Washington University

A student may transfer graduate-level course credits amounting to a maximum of up to 35% of the coursework requirement in the Washington University PhD program and a maximum of up to 10% of the coursework requirement in the Washington University master's degree program. For example, in a PhD program that requires twelve 3-credit courses, a student could transfer, at most, four 3-credit courses toward their Washington University degree. Individual departments may choose to allow the transfer of fewer credits than the maximum percentage allowed by the Office of Graduate Studies, Arts & Sciences. Individual departments retain the autonomy to decide which specific courses can transfer from a previous institution and which courses will need to be completed at Washington University.

Please note that the Master of Arts in Education (MAEd) is an exception. It allows the maximum transfer of 15 credit units from institutions that have entered into special cooperative agreements with Washington University for this purpose.

Credit for previous graduate-level courses will be transferred to a student's Washington University record only to fulfill departmental course requirements. Students may not transfer credit for other program requirements (e.g., qualifying exams, mentored experiences, prospectus defense). In addition, graduate-level coursework that has been applied toward an undergraduate degree may not be transferred for credit in a Washington University PhD or master's degree program.

Transfer requests will be reviewed by the Office of Graduate Studies, Arts & Sciences, and the Washington University department offering the student's degree program. The total number of credits transferred may impact the duration of funding the student receives from the university as well as the expected time to degree completion; these details are determined by the department of the student's program of study and the Office of Graduate Studies, Arts & Sciences.

Joining a Graduate Program Through Faculty Recruitment

Faculty members recruited to Washington University may have students at their prior institution who would like to join the faculty member at Washington University. Those situations will be addressed through a separate process. Please contact the Office of Graduate Studies, Arts & Sciences, Admissions Team for further information.

Satisfactory Academic Progress

Satisfactory academic progress for students in Arts & Sciences PhD programs is monitored by the Office of Graduate Studies, Arts & Sciences, as well as by the degree program. Failure to maintain satisfactory academic progress may result in a student's placement on academic probation or their immediate dismissal. Most financial awards — and all federally funded awards — are contingent on the maintenance of satisfactory academic progress. Moreover, satisfactory academic progress is a prerequisite for service on any committee

authorized by the Office of Graduate Studies, Arts & Sciences. The following are minimal standards of satisfactory academic progress for PhD students; degree programs may set stricter standards but must not relax these standards.

1. Students are expected to proceed at a pace appropriate to meet the deadlines established below and to enable them to complete all degree requirements within the stated time to degree for their program of study. Students are expected to have completed all program requirements for doctoral candidacy within the timeline established by their program.
2. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale. Note that plus and minus marks alter the numerical value of a letter grade.
3. Students are expected not to carry, at one time, any more than 9 credit units for which an I (Incomplete) or N (grade not yet submitted) is recorded. The Office of Graduate Studies, Arts & Sciences, may deny a student with more than 9 unfinished credits permission to register.
4. After two years of full-time graduate study, doctoral students who cannot identify three faculty members who are willing to serve on their Research Advisory Committee (RAC) are not considered to be making satisfactory academic progress. A student must file an RAC form by the end of their second year in order to identify membership of the RAC.
5. A student's Title, Scope and Procedure form must be filed at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier, in order to identify the composition of the dissertation work.
6. A one-year extension beyond a student's designated program length is available if circumstances warrant. Extensions are obtained by application by the student to the degree program; endorsement by the degree program to the Office of Graduate Studies, Arts & Sciences; and approval by the Office of Graduate Studies, Arts & Sciences.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Residence Requirement

Each student must spend at least one academic year enrolled full-time at Washington University. Any exceptions must be approved by the Office of Graduate Studies, Arts & Sciences.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Graduation Information

Students are responsible for applying for program completion via Workday in order to have their earned degree conferred. Deadlines for applying for program completion are listed on the website of the Office of the University Registrar. No degree will be awarded if the Workday process has not been completed. Students who do not complete their degree requirements by their intended graduation date must reapply for the next graduation date.

Students who are completing a master's degree along the way to the PhD must apply for their master's degree upon completion of the master's degree requirements in order to have the degree conferred; master's degrees completed along the way to PhD degrees are not automatically conferred.

Specific Circumstances

Changes in Program of Study

Students are admitted to graduate programs in Arts & Sciences to study toward specific degrees. Therefore, a change in the degree objective (e.g., from MA to PhD) is subject to the approval of both the student's program and the Office of Graduate Studies, Arts & Sciences. A request for a change in the subject of study (e.g., from economics to history) requires the approval of both programs concerned as well as that of the Office of Graduate Studies, Arts & Sciences. Students may be required to fill out a new application for admission before making such changes, but they will not be charged a second application fee.

Student Grievances: Guidelines and Procedures

Students may encounter experiences in which they have legitimate complaints regarding academic matters or an interaction with a faculty member, staff member, or fellow student. It is important that students and faculty have a common understanding of how such complaints may be expressed and resolved.

Students with complaints regarding academic matters or interactions with a faculty member, staff member, or fellow student should initially seek resolution from their faculty advisor, then from their director of graduate studies, and finally from the chair of their degree program. Complaints that remain unresolved may be addressed to the Vice Dean of Graduate Studies in the Office of Graduate Studies (OGS), Arts & Sciences. The Vice Dean may follow up with the complainant, with faculty in the student's degree program, or with other stakeholders on campus to review and investigate the grievance and to work toward a resolution. Faculty involved in the process of receiving or reviewing a complaint should treat the information and relevant conversations as highly confidential.

Students with complaints regarding nonacademic matters (including but not limited to unprofessional behavior, a hostile learning environment, and abusive or offensive language and/or behavior) — whether by faculty, staff, or fellow students — are first encouraged,

depending on the severity of the alleged behavior, to seek resolution with the alleged offender(s). If a complainant is not comfortable with doing so or if the problem persists after they have done so, they should seek resolution from their faculty advisor, then from their director of graduate studies, and finally from the chair of their degree program. Complaints that remain unresolved may be addressed in several ways:

- *By the Ombuds:* The Offices of the Ombuds serve as confidential, independent, and impartial resources that offer assistance in the informal resolution of university-related conflicts and advocate for fair treatment and process.
- *By the OGS:* The OGS does not adjudicate matters of nonacademic student grievance. However, it can and should be used as a source of support, mediation, and advising for such matters.
- *By the University Compliance Office:* Students with such complaints have the option of reporting suspected violations of the University Code of Conduct using the online form on the University Compliance Office webpage.

All complaints regarding academic integrity should be first addressed to the respective department head(s). The department, with the counsel of the OGS, can submit a report of academic integrity through the appropriate mechanism (i.e., the Provost's Academic Integrity Officer for master's student concerns and the Vice Provost for Graduate Education Academic Integrity Officer for PhD concerns).

Washington University policies state that members of the university community can expect to be free from discrimination and harassment. Students, faculty, staff, and outside organizations working on campus are required to abide by specific policies prohibiting harassment. An allegation of discrimination or harassment may be appealed to the Vice Chancellor for Human Resources, who will determine whether to convene the Title IX Grievance Committee to hear the case. Allegations of bias, prejudice, or discrimination should be reported using the Bias Report and Support System. Visit the Discrimination and Harassment page on the Human Resources site for more information.

Leaves of Absence

Students who wish to suspend their graduate study should apply for a leave of absence. Students wishing to request a leave of absence must complete the Time Away Form through Workday Student. Learn more about Time Away, including the Leave of Absence, Withdrawal, and Reinstatement Process on the Office of the University Registrar website.

A student's application for a leave of absence must be endorsed by the degree program and then approved by the Office of Graduate Studies, Arts & Sciences, for up to one year. Extensions must be reapproved by submitting a written request to the director of graduate studies (DGS). The DGS will provide a recommendation to the Office of Graduate Studies, Arts & Sciences, along with the student's written request.

Approved leaves of absence are not counted as part of a student's program length and will not be approved for semesters beyond the program length, including enrollment extension. While on a leave of absence, the student is not registered and has no student

status at Washington University. Students who begin a leave during any semester will be dropped from all course registrations for that semester and will receive no course credit for work completed during that semester prior to the leave.

Leaves of absence may be personal or medical. In the case of a medical leave, the student must present an authorization from the Student Health Center both at the beginning of and again at the end of the leave. At the end of a leave of absence, if approved for reinstatement, a student is reinstated into the School of Arts & Sciences under the conditions prevailing at the time the leave was granted. Being on leave suspends student status and financial support from the university. Therefore, taking a leave may adversely affect loan deferment, visa status, the right to rent university-owned housing, and so on. Most visa types would prevent international students from remaining in the United States while taking a leave of absence; international students should consult the Office for International Students and Scholars as well as their faculty advisor, their program's director of graduate studies, and the Office of Graduate Studies, Arts & Sciences, before taking a leave of absence.

Prior to taking a leave of absence, students should also consider their need for health insurance coverage. The continuation of student health insurance and access to the Student Health Center depends on such factors as the type of leave (medical or personal), the length of time the student has already been covered during the current insurance year, and the student's location during the leave. Students should consult the Student Health Center website for current policies related to leaves of absence; these policies may change annually if insurance carriers change.

Withdrawals

Students wishing to withdraw from their programs must fill out the Time Away Form through Workday Student. Learn more about Time Away, including the Leave of Absence, Withdrawal, and Reinstatement Process on the Office of the University Registrar website. This form should be completed in a timely manner to avoid any possible serious financial repercussions for the student and/or the university. International students should contact their advisors in the Office for International Students and Scholars before taking this action so that they can understand all potential visa and student status implications. Students who are not actively enrolled and not on an official leave of absence for two consecutive years will be administratively withdrawn from the university.

Dismissals

A program may wish to dismiss a student for a number of reasons, including willful misrepresentation to gain admission to graduate study, breaches of academic integrity, academic failure, or behavior destructive to the welfare of the academic community. Dismissals are recommended by the degree program and are not final until approved by the Office of Graduate Studies, Arts & Sciences. Any student who believes their dismissal was undeserved may appeal to the Vice Dean

of Graduate Studies within 14 calendar days. Except for circumstances justifying immediate dismissal, a student may not be dismissed on the basis of academic performance without the opportunity to return to good standing during an identified period of probation.

For details of these or any other policies of the Office of Graduate Studies, Arts & Sciences, please visit the Policies & Procedures page.

Interdisciplinarity

Interdisciplinary Courses

PhD students can discuss with their advisors individual courses available outside of their school that may advance their research or professional goals. A university tuition agreement signed by all of the deans of the university's graduate and professional schools fosters interdisciplinary study across the schools and allows enrollment in courses outside of the student's home school. Many courses are available for graduate student enrollment, subject to the following eligibility guidelines:

- Students must be enrolled full-time in graduate degree programs and have the approval of their faculty advisor or administrative officer to take a course outside of their home school.
- Courses will be open to students outside of the discipline only if the students have met the required prerequisites and have the approval of both their department and the course instructor.
- Finally, courses in the evening divisions, including the School of Continuing & Professional Studies (CAPS), are not part of this agreement. Courses that require individualized instruction and/or additional fees (e.g., independent studies, individual music lessons) are also excluded.

Dual Degree Programs

The university has set up numerous programs that permit students to earn two graduate and/or professional degrees at the same time. One of these programs includes a PhD:

- Medical Scientist Training Program (MD/PhD in various disciplines)

The Office of Graduate Studies, Arts & Sciences, uses the term *dual degree* to identify instances when two separate programs of study share some common curricular elements and may allow a specified amount of double-counting, which means that certain courses or credits can count toward the requirements for both programs. These programs have been designed and approved by either a cross-departmental or cross-school faculty committee or separately by both schools' committees who have agreed on the common elements. Students can only pursue two degrees at the same time if the programs are approved to be offered concurrently. Students cannot enroll in independent PhD programs simultaneously.

Students wishing to pursue dual degrees other than the Medical Scientist Training Program may be permitted to do so, but such requests are considered on a case-by-case basis.

Admission to an individualized dual degree program between two School of Arts & Sciences disciplines on the Danforth Campus must be recommended by the directors of graduate studies for both disciplines and approved by the Office of Graduate Studies, Arts & Sciences. Admission to an individualized dual degree program involving another school of the university must be recommended by the directors of graduate studies for both disciplines and approved by the deans of both schools. Recommendations should address a variety of academic and administrative concerns, including the timeline for the completion of both degrees and the responsibility for funding the student and remitting the tuition. Students should not undertake study toward an individualized dual degree program until it has been fully approved.

Graduate Certificates

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

There are a number of graduate certificates offered to full-time PhD students in the School of Arts & Sciences, and they are all interdisciplinary in nature. Please consult the Degrees Offered page (p. 509) for available graduate certificate programs.

The minimum credit requirement for a graduate certificate is 12 credits. Individual graduate certificate programs may have additional requirements, so please consult individual graduate certificate program pages for more information.

No more than 50% of the total credit requirement for the graduate certificate may count toward both the student's graduate certificate and the student's doctoral program degree requirements. For instance, in a graduate certificate program that requires 15 total credits, up to 7 credits earned by the student may be counted toward both the graduate certificate and the student's doctoral degree. In a graduate certificate program that requires 12 total credits, up to 6 credits earned by the student may be counted toward both the graduate certificate and the student's doctoral degree.

All courses that count toward the degree requirements for the graduate certificate are defined by and subject to the approval of the academic unit offering the graduate certificate. Courses that will double count must be agreed upon by both the student's certificate and PhD programs.

Interested students must fill out an application for admission to a certificate program on the Office of Graduate Studies, Arts & Sciences, Forms page and receive the approval of their degree program's chair, the certificate program's director, and the Office of Graduate Studies, Arts & Sciences. Tuition remission will be granted for required units for a program of study to which a student has been admitted, including an approved Arts & Sciences graduate certificate program. Earning a

certificate should not increase a student's expected time to degree or the amount of support from the School of Arts & Sciences. No student will be admitted to, given tuition remission for, or awarded more than one graduate certificate.

Financial Information

The amounts and vehicles of financial support for graduate students are usually decided by individual schools. Funding, if available, may consist of tuition remission and a monthly stipend to defray living expenses. Monetary support may come from the university or from outside sources.

Financial Support

Courses and Tuition Remission

Each doctoral program determines the coursework required for the degree and supplemental training a student may pursue to enhance their field of study (e.g., a graduate certificate or coursework beyond the program requirements). Tuition remission will be granted for required credits for a program of study to which a student has been admitted and, if applicable, an Arts & Sciences graduate certificate program or coursework approved as necessary/central to their training by their Director of Graduate Studies (DGS). This credit-bearing coursework should be taken across four semesters of enrollment, with additional credit-bearing coursework as approved.

To be eligible for tuition remission, courses must be offered at the graduate level (course numbered 5000 and above), taken for a grade, and approved in advance by the student's advisor and program as necessary for the student's degree. Audited courses are not eligible for tuition remission and cannot count toward full-time status in a given semester. Students should consult their advisors regarding course selection.

When certain conditions apply, graduate students may be permitted to register for Arts & Sciences courses numbered below 5000, but those courses will not be covered by tuition remission and will not count toward the student's degree requirements. Those courses, then, will require that the student pay tuition for them unless the courses are taken along with 9 units of approved graduate-level coursework during the relevant semester. For more information, please see the Arts & Sciences Course Numbering Guidelines.

Arts & Sciences graduate students are not allowed to take courses in the WashU School of Continuing & Professional Studies (CAPS). Additionally, tuition remission is not available for Summer Session courses.

Outside of the stipulations noted above, graduate students in Arts & Sciences may enroll in English Language Program (ELP) courses. The Office of Graduate Studies (OGS) will pay tuition from Arts & Sciences funds for a maximum of 6 units of ELP courses throughout a student's graduate degree program. The tuition and course costs for enrollment in ELP units beyond 6 must be covered by the student or department.

Tuition Scholarships

Scholarships to cover part or all of the costs of tuition are available to both new and continuing students. Since the perception of academic merit is the sole criterion for the award of tuition scholarships, such scholarships are not subject to taxation under federal tax law at this time.

Research Assistantships

Research assistantships are generally (but not exclusively) found in the natural and social sciences, and they are offered through research grants, departments, committee-run programs, and research centers. Research assistantships allow participation in collaborative enterprises of research and in the discipline's community of scholars.

Traineeships

Many degree programs, especially in the biological and behavioral sciences, fund students by means of traineeships. These positions may be awarded on an annual basis, or they may be renewable for periods of up to three years, subject to satisfactory academic progress. Traineeships frequently emphasize research; however, in the applied social sciences, they may combine theory, research, and clinical experience in the field.

Fellowships

Fellowships may be awarded to a student by the Office of Graduate Studies, Arts & Sciences; the student's degree program; or the office of the Vice Provost of Graduate Education. In addition, a student may apply for and win certain fellowships that are awarded directly to the student; these fellowships require joint administration between the department in which the student's degree program is housed and the Office of Graduate Studies, Arts & Sciences. There are also two unique fellowships: the Dean's Distinguished Graduate Fellowships in Arts & Sciences (administered by Arts & Sciences) and the Ann W. and Spencer T. Olin - Chancellor's Fellowship (administered by the Office of the Provost). For these two fellowships, prospective students must apply and/or be nominated at the time of their application for admission, not after they have enrolled at Washington University as graduate students.

Loans

Federally underwritten loans are another centrally administered resource for students who are U.S. citizens or permanent residents. Unsubsidized Stafford loans can be arranged for graduate students. Applicants for these loans are required to submit the Free Application for Federal Student Aid (FAFSA). The Office of Graduate Studies, Arts &

Sciences, determines eligibility and processes loan applications for all master's and PhD students in Arts & Sciences. *All other master's and PhD students are processed by their individual school's financial aid offices.* For more information about applying for loans, please visit the Financial Support webpage of the Office of Graduate Studies, Arts & Sciences.

Financial Costs

Tuition Charges and Refunds

The maximum tuition fee is the equivalent of 9 semester units. Students who enroll in 9 or more units per semester are automatically regarded as full-time students and are charged a flat full-time rate. Students enrolled in fewer than 9 units are charged on a per-unit basis. The tuition rate is subject to annual change.

A request for the refund of tuition paid by a student who is withdrawing from a program of study should be made through the withdrawal process. The last date of class attendance is ordinarily used in determining the amount that can be refunded. Students withdrawing within the first two weeks of classes will receive a full refund; those students withdrawing before the end of the fourth week pay 20%; and students withdrawing before the end of the eighth week pay 40%. There is no refund after the eighth week of the semester except for reasons of health, which must be certified or verified by the Student Health Center. In those cases, the university will make a prorated refund of tuition if notice of withdrawal is received before the end of the 12th week of the semester. Students who have had their full tuition remitted for them by their school or by a third party will not receive any refund.

Health and Wellness Fees

All full-time students in degree programs based on the Danforth Campus are charged a mandatory health and wellness fee that gives them access to the Student Health Center, the Center for Counseling and Psychological Services, and TimelyCare. In addition, they must either enroll in the student health insurance plan or present proof of comparable coverage to opt out. International students are not allowed to waive health insurance. Dental insurance is also available. The health fee, the health insurance premium, and the dental insurance premium are subject to annual change. The Office of Graduate Studies, Arts & Sciences, subsidizes these insurance costs for most full-time fully supported students. Support details for each student can be found in their offer letter.

All full-time students in degree programs based on the Medical Campus are also charged a mandatory health and wellness fee that provides coverage equivalent to a health insurance plan. Details can be found on the Student Health Services website.

Master's Degrees

There are multiple ways to earn a master's degree at Washington University:

Master's Along the Way to a PhD

Students who have not previously earned a master's degree in the same field as their PhD may earn the degree along the way to their PhD. This option is available in some disciplines but not in all of them.

Master's in Lieu of a PhD

Students who have not previously earned a master's degree in the same field as their PhD may be awarded a master's degree for work done in a PhD program that they are leaving without completing. This option, a master's degree in lieu of a PhD, is available in some disciplines but not in all of them.

Standalone Master's

There are a number of Arts & Sciences disciplines that admit students to pursue a standalone master's degree. The majority of these programs are for full-time students and are described by their departments in other sections (p. 60) of this *Bulletin*. Two instances of standalone part-time master's degree programs exist in Arts & Sciences: the Master of Arts in Biology and the Master of Liberal Arts. (Most part-time standalone master's programs are available through the School of Continuing & Professional Studies and are described in that school's section of this *Bulletin*.)

Accelerated Bachelor's/Master's

Undergraduate students in Arts & Sciences at Washington University may apply for the accelerated BA/MA program, in which graduation with a Bachelor of Arts (BA) is followed by one year of graduate study leading to the MA. This option is available in some disciplines but not in all of them, and it is further described in the Accelerated BA/Master's Program (p. 58) section of this *Bulletin*.

Academic Information

General Requirements for Master's Degrees in Arts & Sciences

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

The minimum credit requirement for a master's degree is 30 credits. Individual master's programs may have additional credit requirements, so please consult individual program pages for more information.

Master's Research

A master's degree program can require a master's thesis, make the thesis optional, or decline to offer a thesis. For students in an approved dual degree program who are pursuing a master's degree outside of their intended PhD area of study, programs must require that the student complete a master's thesis.

- *Master's degrees with theses:* No more than 12 credits of master's thesis research may count toward a master's degree with thesis. A master's thesis must be defended before a committee of no fewer than three faculty members.
- *Master's degrees without theses:* For students who are not completing a master's thesis, no more than 12 credits of research may count toward a master's degree without thesis. A master's degree without a thesis must include the completion of a requirement (e.g., an examination outside of a course, a specific course or courses with a specific grade, a final project outside of a course) that confirms competency in the field of study. Degree programs may include additional requirements.
- *Master's degrees along the way to a PhD:* No more than 15 units of master's thesis research may be applied to a master's degree earned along the way to a PhD.

Registration

Students newly admitted to graduate programs in Arts & Sciences receive information about creating a WashU Key (a university login identity credential) from the university. The WashU Key and password are used to access Workday to register for courses online during open registration periods. All registrations require online approval by the student's faculty advisor and are monitored by the Office of Graduate Studies, Arts & Sciences.

Credit Units

Full-time students register for at least 9 units of graduate-level (5000 and above) coursework per semester. Master's students who have completed their courses and need additional time to complete other degree requirements must register for ASGS 9000 Full-Time Graduate Research/Study.

Courses

To count toward a master's degree, courses must be offered at the graduate level (5000 or above), taken for a grade, and approved in advance by the student's advisor and program as eligible to count toward the student's degree. Audited courses may not be counted toward the degree or toward full-time status in a given semester. All coursework that involves classroom engagement led by an instructor and for which credits hours are based on contact hours must be letter-graded in order to count for the degree. The only courses that may count toward the degree with a Pass/No Pass grading basis are internships, practica, and research courses. Students should refer to the department program pages in this *Bulletin* for program-specific requirements.

Online Courses

Online courses (with the exception of previously approved courses required for part-time master's programs) are not applicable to Arts & Sciences degree programs. Therefore, students may not enroll in online courses offered by other schools at Washington University nor attempt to transfer courses, taken at other institutions, that were delivered online.

Grades

Grade options available for graduate students in Arts & Sciences are as follows:

Grade/Notation	Value
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0
P	Pass

NP	No Pass
I	Incomplete (work still pending for assessment of final grade)
W	Withdrawal
R	Retake
L	Successful audit
Z	Unsuccessful audit
T	Transfer (coursework transferred in)
EC	Exam Credit

In the rare event that an instructor is unable to submit a grade by the grade deadline, an N, signifying that the grade has not yet been submitted, may temporarily appear as a transcript notation on the student's record. Grades that are not posted within 120 days of the last day of the semester for which the N notation was posted will result in these temporary notations being automatically changed to a grade of F (or, in the case of a course taken as Pass/No Pass, to a grade of NP).

Grades cannot be changed after the sealing of a student's transcript, which follows conferral of the student's degree.

Zero-unit ASGS 9000-level courses will have only the Pass/No Pass grade option.

Grade Appeals

If a student receives a grade they believe to be unjustified, whether for a single assignment or for the course grade as a whole, they have the right to discuss any grade(s) with their instructor and to appeal the grade(s). (Students considering appealing their grades are welcome to consult with their advisor or the Office of Graduate Studies, Arts & Sciences, Student Affairs team; contact artscigrads@wustl.edu to connect with the Office of Graduate Studies, Arts & Sciences, Student Affairs team. Neither the advisor nor the Office of Graduate Studies, Arts & Sciences, Student Affairs team may make any decisions with regard to the appeal, but they can inform students about possible options for approaching the appeal.)

Grounds for Appeal

Sufficient grounds for appeal include clerical or mathematical errors in calculating the grade; inequitable use of the syllabus's grading rubric or policies; and grading impacted by issues beyond the course content.

Students should be aware that an appeal may include a complete review of the student's work in the course as a whole, which may result in a grade being either raised or lowered.

Students may not appeal to raise their grade by completing additional assignments (i.e., "extra credit") or by submitting late work except in the case of an official Incomplete.

If a student believes that the grade is the result of identity-based discrimination, they should make a report to the Office of Institutional Equity rather than file a grade appeal through this process. In addition, grades that are a result of sanctions for a violation of Academic Integrity (as determined by the Academic Integrity Board) are not eligible for appeal through this process.

Timing of Appeals

Grade appeals must be initiated within 30 days of the grade being posted and must be addressed by the instructor in a timely manner. Grade appeals in the semester prior to the student's graduation must be raised immediately and addressed on an expedited timeline so that the appeal may be resolved prior to the conferral of a degree and the sealing of the student's transcript. A grade appeal submitted after a student graduates will not be reviewed as grade changes cannot be made following degree conferral.

Appeals Process

- The student must first appeal the grade with the instructor. The appeal must be in writing, reference this grade appeal policy, and outline the reasons for the appeal. The instructor must reply to the student in writing within two weeks of the student's request, providing detailed justification for retaining the assigned grade or confirming that the grade will be changed in light of the student's appeal.
- If the student's written concerns have not been met by the instructor's justification, they may raise the grade appeal to the director of graduate studies (DGS) in the appropriate department or program (based on the department or program that owns the course and not on the student's program of study) within one week of the instructor's response. The subsequent appeal must be submitted in writing, and it must reference this grade appeal policy, respond to the instructor's detailed justification, and explain why the student believes there remains cause for appeal. Disagreement with the instructor's professional judgement is insufficient grounds for further appeal, and appeals to the DGS that merely reiterate a student's initial concerns will not be considered. The DGS will review the appeal and provide a written response to the student within three weeks.
- In the rare instance that the student believes further appeal to be necessary, the student may direct a final appeal to the Vice Dean of Graduate Studies. If a student wants to pursue a grade appeal at this level, the appeal must be in writing and be submitted within one week of the written response from the DGS. The student's statement should acknowledge both the instructor's and the DGS's responses and explain why the student believes there remains cause for appeal. Disagreement with the instructor's or DGS's professional judgement is insufficient grounds for further appeal. The Vice Dean of Graduate Studies must respond in writing within four weeks of the student's appeal. The decision of the Vice Dean is final.

Incomplete Grades

Students who are not making satisfactory progress in a course should withdraw from the course prior to the published withdrawal deadline. However, should a student experience medical or acute personal challenges after the withdrawal deadline that make the satisfactory completion of coursework difficult or unlikely, they may be eligible for a grade of Incomplete. In extreme circumstances, students may want to discuss a Medical Leave of Absence with their advisor.

To request a grade of Incomplete (I) from one or more instructors, students must take the following steps with each instructor:

1. The student should meet with the instructor before the final examination or due date for the final paper/project to request the Incomplete.
2. If the instructor grants the Incomplete, the student and instructor should agree on the scope of the work remaining to complete the course and a date when it will be submitted. This date should be within 120 days of the last day of the semester in which the course is being taken. The instructor should confirm with the student, in writing, the details of the work with respective deadlines.

Whether or not to grant an Incomplete is at the instructor's discretion. When determining whether to do so, the instructor should consider whether the student has consistently attended and engaged with the course (for example, whether the student has submitted all assignments except the final assignments/assessments) and made satisfactory progress in the course. Incompletes should not be granted unless the student has completed at least two thirds of the assignments/assessments for the course.

If sufficient work has not been completed, the grade of Incomplete will not be feasible. In such situations, the instructor will submit whatever final grade the student has earned. The student may retake the course at a later time if they choose. (For information about retaking a course, see below.)

If an Incomplete is granted, the work should be completed in the time frame agreed upon with the instructor. However, this time frame should not extend more than 120 days from the last day of the semester in which the Incomplete is granted/the course for which the Incomplete is granted is taken.

Failure to submit completed work and for the earned grade to be posted within 120 days of the last day of the semester in which the Incomplete was granted will result in the grade of Incomplete being automatically changed to a grade of F (or, in the case of a course being taken as Pass/No Pass, to a grade of NP).

Further, students cannot have a grade of Incomplete on their transcripts when their degrees are conferred. Thus, students who are expecting to graduate at the end of the semester in which the course being considered for an Incomplete was taken should not request or be granted a grade of Incomplete.

Any student who does have an Incomplete on their transcript at the time of certification and degree conferral will have the Incomplete changed to a grade of F (or, in the case of a course being taken as Pass/No Pass, to a grade of NP).

Grades cannot be changed after the conferral of a student's degree.

Note: If an Incomplete is granted, students cannot be added to the Canvas shell of a subsequent offering of the course in order to complete the previous enrollment. Instead, at the instructor's request, the student can be given access to the original course shell, and the instructor can reopen assignments within that course shell. All work for an Incomplete should occur within the original course's Canvas course shell or outside of Canvas entirely.

Retaking a Course

Graduate students may be allowed to retake a course in which they have earned a B or lower (grades of P for Pass, A, B+, and Incomplete are not eligible for retakes; audits — whether successful or unsuccessful — are also not eligible for retakes) once with prior permission from their department or program. The department may refuse the student's request. If permission to retake a course is granted, both registrations will show on the transcript; however, only the grade and units of the enrollment with the highest grade will be used to calculate the student's GPA. The other attempt will have the letter R (denoting the retake) placed next to the grade. A student who retakes a course without prior permission might not receive permission retroactively. Please note that courses that are transferred in to Washington University as equivalents to a previously completed course will also be included in course attempts.

Transfer Credit

Students who have completed graduate-level coursework or a graduate degree at an institution prior to joining Washington University may request to transfer a portion of that credit toward the coursework in their Washington University degree program.

Graduate-Level Courses Completed Prior to Joining Washington University

A student may transfer graduate-level course credits amounting to a maximum of up to 35% of the coursework requirement in the Washington University PhD program and a maximum of up to 10% of the coursework requirement in the Washington University master's degree program. For example, in a PhD program that requires twelve 3-credit courses, a student could transfer, at most, four 3-credit courses toward their Washington University degree. Individual departments may choose to allow the transfer of fewer credits than the maximum percentage allowed by the Office of Graduate Studies, Arts & Sciences. Individual departments retain the autonomy to decide which specific courses can transfer from a previous institution and which courses will need to be completed at Washington University.

Please note that the Master of Arts in Education (MAEd) is an exception. It allows the maximum transfer of 15 credit units from institutions that have entered into special cooperative agreements with Washington University for this purpose.

Credit for previous graduate-level courses will be transferred to a student's Washington University record only to fulfill departmental course requirements. Students may not transfer credit for other program requirements (e.g., qualifying exams, mentored experiences, prospectus defense). In addition, graduate-level coursework that has been applied toward an undergraduate degree may not be transferred for credit in a Washington University PhD or master's degree program.

Transfer requests will be reviewed by the Office of Graduate Studies, Arts & Sciences, and the Washington University department offering the student's degree program. The total number of credits transferred may impact the duration of funding the student receives from the university as well as the expected time to degree completion; these details are determined by the department of the student's program of study and the Office of Graduate Studies, Arts & Sciences.

Joining a Graduate Program Through Faculty Recruitment

Faculty members recruited to Washington University may have students at their prior institution who would like to join the faculty member at Washington University. Those situations will be addressed through a separate process. Please contact the Office of Graduate Studies, Arts & Sciences, Admissions Team for further information.

Shared Credits With the PhD

The doctorate-granting department determines which courses will count toward the doctoral degree. These and related details are shared on their program pages in this *Bulletin*.

Satisfactory Academic Progress

Satisfactory academic progress for students in Arts & Sciences master's programs is monitored by the Office of Graduate Studies, Arts & Sciences, as well as by the degree program. Failure to maintain satisfactory academic progress may result in immediate dismissal or in placement on academic probation for a minimum of three months. Most financial awards and all federally funded awards are contingent on the maintenance of satisfactory academic progress. Moreover, satisfactory academic progress is a prerequisite for service on any committee authorized by the Office of Graduate Studies, Arts & Sciences. The following are minimal standards of satisfactory academic progress for master's students; degree programs may set stricter standards but must not relax these standards.

1. Students enrolled in full-time master's degree programs are expected to proceed at a pace appropriate to enable them to complete their degree requirements within the stated time to degree for their program of study.
2. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale. Note that plus and minus marks alter the numerical value of a letter grade.

3. Students are expected not to carry, at one time, any more than 9 credit units for which an I (Incomplete) or N (grade not yet submitted) is recorded. The Office of Graduate Studies, Arts & Sciences, may deny a student with more than 9 unfinished credits permission to register.

Residence Requirement

The residence requirement for full-time master's degree students is that each student must spend at least one academic year registered for full-time credits (9 to 12 credits in the fall followed by 9 to 12 credits in the spring) at Washington University. Any exceptions to this requirement must be approved by the Office of Graduate Studies, Arts & Sciences. All programs, with the exception of the Master of Arts in Biology and the Master of Liberal Arts, require that students remain full-time and in residence throughout their work toward the degree.

Thesis

The thesis topic is subject to approval by the master's student's faculty advisor and by the chair of the degree program. As soon as the thesis topic has been approved (but no later than six months before the thesis defense is likely to occur), students should submit the Title, Scope and Procedure form to the Office of Graduate Studies, Arts & Sciences. It must be signed by the three-member committee before whom the student will defend the thesis as well as by the chair of the degree program. At least three members of the thesis committee must be Washington University faculty; at least two of them must be appointed in the master's student's degree program; and at least two of them (not necessarily the same two) must be tenured or tenure-track, including the committee chair or co-chair. Exceptions must be approved by the Office of Graduate Studies, Arts & Sciences, or their designee.

A Master's Thesis Guide and a template that provide instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the thesis available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

After the defense, the student must submit an electronic copy of the thesis online to the Office of Graduate Studies, Arts & Sciences, via BePress at the university library. The degree program is responsible for delivering the Master's Thesis Approval form, signed by the committee members at the defense and then by the program chair, to the Office of Graduate Studies, Arts & Sciences. Students who defend their theses successfully have not yet completed their master's requirements; they finish earning the degree only when their thesis submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Graduation Information

Students are responsible for applying for program completion via Workday in order to have their earned degree conferred. Deadlines for applying for program completion are listed on the website of the Office of the University Registrar. No degree will be awarded if the Workday process has not been completed. Students who do not complete their degree requirements by their intended graduation date must reapply for the next graduation date.

Specific Circumstances

Changes in Program of Study

Students are admitted to graduate programs in Arts & Sciences to study toward specific degrees. Therefore, a change in the degree objective (e.g., from MA to PhD) is subject to the approval of both the student's program and the Office of Graduate Studies, Arts & Sciences. A request for a change in the subject of study (e.g., from economics to history) requires the approval of both programs concerned as well as that of the Office of Graduate Studies, Arts & Sciences. Students may be required to fill out a new application for admission before making such changes, but they will not be charged a second application fee.

Student Grievances: Guidelines and Procedures

Students may encounter experiences in which they have legitimate complaints regarding academic matters or an interaction with a faculty member, staff member, or fellow student. It is important that students and faculty have a common understanding of how such complaints may be expressed and resolved.

Students with complaints regarding academic matters or interactions with a faculty member, staff member, or fellow student should initially seek resolution from their faculty advisor, then from their director of graduate studies, and finally from the chair of their degree program. Complaints that remain unresolved may be addressed to the Vice Dean of Graduate Studies in the Office of Graduate Studies (OGS), Arts & Sciences. The Vice Dean may follow up with the complainant, with faculty in the student's degree program, or with other stakeholders on campus to review and investigate the grievance and to work toward a resolution. Faculty involved in the process of receiving or reviewing a complaint should treat the information and relevant conversations as highly confidential.

Students with complaints regarding nonacademic matters (including but not limited to unprofessional behavior, a hostile learning environment, and abusive or offensive language and/or behavior) — whether by faculty, staff, or fellow students — are first encouraged, depending on the severity of the alleged behavior, to seek resolution with the alleged offender(s). If a complainant is not comfortable with doing so or if the problem persists after they have done so, they

should seek resolution from their faculty advisor, then from their director of graduate studies, and finally from the chair of their degree program. Complaints that remain unresolved may be addressed in several ways:

- *By the Ombuds:* The Offices of the Ombuds serve as confidential, independent, and impartial resources that offer assistance in the informal resolution of university-related conflicts and advocate for fair treatment and process.
- *By the OGS:* The OGS does not adjudicate matters of nonacademic student grievance. However, it can and should be used as a source of support, mediation, and advising for such matters.
- *By the University Compliance Office:* Students with such complaints have the option of reporting suspected violations of the University Code of Conduct using the online form on the University Compliance Office webpage.

All complaints regarding academic integrity should be first addressed to the respective department head(s). The department, with the counsel of the OGS, can submit a report of academic integrity through the appropriate mechanism (i.e., the Provost's Academic Integrity Officer for master's student concerns and the Vice Provost for Graduate Education Academic Integrity Officer for PhD concerns).

Washington University policies state that members of the university community can expect to be free from discrimination and harassment. Students, faculty, staff, and outside organizations working on campus are required to abide by specific policies prohibiting harassment. An allegation of discrimination or harassment may be appealed to the Vice Chancellor for Human Resources, who will determine whether to convene the Title IX Grievance Committee to hear the case. Allegations of bias, prejudice, or discrimination should be reported using the Bias Report and Support System. Visit the Discrimination and Harassment page on the Human Resources site for more information.

Leaves of Absence

Students who wish to suspend their graduate study should apply for a leave of absence. Students wishing to request a leave of absence must complete the Time Away Form through Workday Student. Learn more about Time Away, including the Leave of Absence, Withdrawal, and Reinstatement Process on the Office of the University Registrar website.

A student's application for a leave of absence must be endorsed by the degree program and then approved by the Office of Graduate Studies, Arts & Sciences, for up to one year. Extensions must be reapproved by submitting a written request to the director of graduate studies (DGS). The DGS will provide a recommendation to the Office of Graduate Studies, Arts & Sciences, along with the student's written request.

Approved leaves of absence are not counted as part of a student's program length and will not be approved for semesters beyond the program length, including enrollment extension. While on a leave of absence, the student is not registered and has no student

status at Washington University. Students who begin a leave during any semester will be dropped from all course registrations for that semester and will receive no course credit for work completed during that semester prior to the leave.

Leaves of absence may be personal or medical. In the case of a medical leave, the student must present an authorization from the Student Health Center both at the beginning of and again at the end of the leave. At the end of a leave of absence, if approved for reinstatement, a student is reinstated into the School of Arts & Sciences under the conditions prevailing at the time the leave was granted. Being on leave suspends student status and financial support from the university. Therefore, taking a leave may adversely affect loan deferment, visa status, the right to rent university-owned housing, and so on. Most visa types would prevent international students from remaining in the United States while taking a leave of absence; international students should consult the Office for International Students and Scholars as well as their faculty advisor, their program's director of graduate studies, and the Office of Graduate Studies, Arts & Sciences, before taking a leave of absence.

Prior to taking a leave of absence, students should also consider their need for health insurance coverage. The continuation of student health insurance and access to the Student Health Center depends on such factors as the type of leave (medical or personal), the length of time the student has already been covered during the current insurance year, and the student's location during the leave. Students should consult the Student Health Center website for current policies related to leaves of absence; these policies may change annually if insurance carriers change.

Withdrawals

Students wishing to withdraw from their programs must fill out the Time Away Form through Workday Student. Learn more about Time Away, including the Leave of Absence, Withdrawal, and Reinstatement Process on the Office of the University Registrar website. This form should be completed in a timely manner to avoid any possible serious financial repercussions for the student and/or the university. International students should contact their advisors in the Office for International Students and Scholars before taking this action so that they can understand all potential visa and student status implications. Students who are not actively enrolled and not on an official leave of absence for two consecutive years will be administratively withdrawn from the university.

Dismissals

A program may wish to dismiss a student for a number of reasons, including willful misrepresentation to gain admission to graduate study, breaches of academic integrity, academic failure, or behavior destructive to the welfare of the academic community. Dismissals are recommended by the degree program and are not final until approved by the Office of Graduate Studies, Arts & Sciences. Any student who believes their dismissal was undeserved may appeal to the Vice Dean

of Graduate Studies within 14 calendar days. Except for circumstances justifying immediate dismissal, a student may not be dismissed on the basis of academic performance without the opportunity to return to good standing during an identified period of probation.

For details of these or any other policies of the Office of Graduate Studies, Arts & Sciences, please visit the Policies & Procedures page.

Interdisciplinarity

Dual Degree Programs

The university has set up numerous programs that permit students to earn two graduate and/or professional degrees at the same time. Two of these programs include an MA degree:

- Dual Master of Social Work/Master of Arts in Education
- Dual Juris Doctoris/Master of Arts in Women, Gender, and Sexuality Studies

The Office of Graduate Studies, Arts & Sciences, uses the term *dual degree* to identify instances when two separate programs of study share some common curricular elements and may allow a specified amount of double-counting, which means that certain courses or credits can count toward the requirements for both programs. These programs have been designed and approved by either a cross-departmental or cross-school faculty committee or separately by both schools' committees who have agreed on the common elements.

Interested students must apply to and be admitted by each degree program separately. Ideally, all applications should be made before beginning graduate or professional study. Dual degrees are ordinarily conferred simultaneously after all requirements for both degrees have been met. For details of the programs listed above, students should consult the websites of the two disciplines.

Accelerated BA/Master's Program

WashU undergraduate students with a demonstrated capacity for advanced, intensive work may be able to complete an Arts & Sciences master's degree in a one-year accelerated program after completing the bachelor's degree. The undergraduate and graduate degrees are awarded sequentially. Admission to the master's degree program, if approved, will occur for the fall semester following completion of the bachelor's degree in the preceding December, May, or August.

WashU undergraduate students wanting to pursue an Accelerated BA/MA must consult with the specific master's-degree-granting program in advance to determine what courses they will need to enroll in as an undergraduate to be able to complete the master's program in the accelerated timeline. It is recommended that these conversations take place no later than the first semester of the student's junior year. Please consult the specific Accelerated BA/MA page for the master's-degree-granting program in the Arts & Sciences Graduate & Professional *Bulletin* for more detailed information as academic units may set earlier deadlines.

The student must then apply for the specific Accelerated BA/MA program through the admissions system no later than March 15 of their senior year. Applications may be submitted at any time during the student's senior year up to the deadline of March 15. Please consult with the Office of Graduate Studies, Arts & Sciences, Central Admissions Office at artscigradadmissions@wustl.edu to ensure access to the accurate application. Graduate Record Examination (GRE) scores and letters of recommendation are not required. The program is available only to students currently in their senior year and only for continuous enrollment the next year. There is no option for deferred admission.

The master's-degree-granting program and the Office of Graduate Studies, Arts & Sciences, will review the application. All admissions are provisional until the successful completion of the bachelor's degree. The actual awarding of each degree is contingent on the successful completion of all requirements for that degree.

Some academic units may not participate in this program. Please consult the specific Accelerated BA/MA page for the master's-degree-granting program in the Arts & Sciences Graduate & Professional *Bulletin* for more detailed information on program requirements, and contact the relevant master's-degree-granting academic unit for more specific information about its admissions policies and requirements. Students admitted to the Accelerated BA/MA program will be regular, full-time graduate students enrolled in the School of Arts & Sciences at Washington University following conferral of their bachelor's degree.

Most master's degrees in Arts & Sciences require 30 to 36 credits. For accelerated programs for master's degrees requiring 30 to 35 units, up to a maximum of 12 units (four 3-credit courses or three 4-credit courses) at the 4000 level or above taken as an undergraduate may be applied toward the master's degree. Accelerated programs for master's degrees requiring 36 or more credits may apply up to a maximum of 16 units (five 3-credit courses or four 4-credit courses) taken as an undergraduate at the 4000 level or above toward the master's degree. Master's programs requiring 36 or more units may require an additional semester of enrollment. The master's-degree-granting academic unit will determine which undergraduate courses may be applied to the accelerated program for the master's degree. At a minimum, the undergraduate courses must be in an appropriate discipline and completed with a grade of B or higher.

Financial Information

Master's degree programs vary considerably in the extent to which they are eligible for financial support from the degree program or from the Office of Graduate Studies, Arts & Sciences. Typical awards, where applicable, include scholarships for part or all of the tuition charges. Part-time employment and student loans are possible sources of support.

Financial Support

Tuition Scholarships

Scholarships to cover part or all of the costs of tuition are available to both new and continuing students. Since the perception of academic merit is the sole criterion for the award of tuition scholarships, such scholarships are not subject to taxation under federal tax law at this time.

Loans

Federally underwritten loans are another resource for students who are U.S. citizens or permanent residents. Unsubsidized Stafford loans can be arranged for graduate students. Applicants for these loans are required to submit the Free Application for Federal Student Aid (FAFSA). The Office of Graduate Studies, Arts & Sciences, determines eligibility and processes loan applications for all full-time Arts & Sciences master's students. *All other master's students are processed by their individual school's financial aid office.* For more information about applying for loans, please visit the Funding and Support webpage of the Office of Graduate Studies, Arts & Sciences.

Financial Costs

Tuition Charges and Refunds

The maximum tuition fee is the equivalent of 9 semester units. Students who enroll in 9 or more units per semester are automatically regarded as full-time students and are charged a flat full-time rate. Students enrolled in fewer than 9 units are charged on a per-unit basis. The tuition rate is subject to annual change.

A request for the refund of tuition paid by a student who is withdrawing from a program of study should be made through the withdrawal process. A request for refund of tuition paid by a student who is withdrawing from a specific course will be processed through Workday. The last date of class attendance is ordinarily used in determining the amount that can be refunded. Students withdrawing within the first two weeks of classes will receive a full refund; students withdrawing before the end of the fourth week pay 20%; and students withdrawing before the end of the eighth week pay 40%. There is no refund after the eighth week of the semester except for reasons of health, which must be certified or verified by the Student Health Center. In those cases, the university will make a prorated refund of tuition if notice of withdrawal is received before the end of the 12th week of the semester. Students who have had their full tuition remitted for them by their school or by a third party will not receive any refund.

Health and Wellness Fees

All full-time Arts & Sciences students in degree programs based on the Danforth campus are charged a mandatory health and wellness fee that gives them access to the Student Health Center, the Center for Counseling and Psychological Services, and TimelyCare. In addition, they must either enroll in the student health insurance plan or present proof of comparable coverage to opt out. International students are not allowed to waive health insurance. Dental insurance is also available. The health and wellness fee, the health insurance premium, and the dental insurance premium are subject to annual change.

Fields of Study

A

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American Culture Studies (p. 67)

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B

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C

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Comparative Literature and Thought (p. 159)

D

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E

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F

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G

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H

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Q

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R

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S

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T

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W

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African & African American Studies

Because a richly informed knowledge of race and the diverse experiences of Black communities globally is essential to addressing many of today's most pressing challenges, the Department of African & African American Studies at Washington University is pleased to offer the **Graduate Certificate in Global Black Studies** to doctoral students in any Arts & Sciences discipline. This program offers rigorous

interdisciplinary training in the humanities and social sciences to complement and amplify crucial aspects of the student's primary course of study, introducing thinkers ranging from W. E. B. Du Bois to Dorothy Roberts, from Patricia McFadden to Sylvia Tamale, and from Hubert H. Harrison to Eric Williams.

Training includes equipping the student with the theoretical and methodological tools needed to integrate incisive analyses of race as a physical and political category, the capacious concept of Blackness, and the historical processes of racialization into their research. Participants in the program will find collaborating with our accomplished and engaged scholars to be intellectually expansive and personally inspiring.

How to Apply

Graduate students interested in the Global Black Studies Graduate Certificate should first apply for admission to the Washington University department in which they plan to obtain their PhD. Once they have enrolled in an Arts & Sciences PhD program, they should complete the following steps:

1. Students should notify their primary program of study Director of Graduate Studies (DGS) and the African & African American Studies (AFAS) DGS, Gerald Early (gearly@wustl.edu), of their intention to apply for admission to the certificate program.
2. Students should submit an A&S Graduate Certificate Application Form to the Office of Graduate Studies, Arts & Sciences, copying the AFAS Department (afas@wustl.edu), and the AFAS Academic Coordinator, Ameen Animashaun (a.a.animashaun@wustl.edu).
3. Students should submit the Global Black Studies Graduate Certificate application to DGS Gerald Early (gearly@wustl.edu).

For other inquiries, please contact DGS Gerald Early (gearly@wustl.edu).

Website: <https://afas.wustl.edu/>

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Marlon M. Bailey

Chair of African & African American Studies
PhD, University of California, Berkeley

Staff

Ameen Animashaun

Academic & Administrative Coordinator
MFA, Washington University in Saint Louis

Gabrielle Weeden

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BA, Spelman College

Core Faculty

Kia Lilly Caldwell

Vice Provost for Faculty Affairs and Diversity & Professor
PhD, University of Texas at Austin

El Hadji Samba Amadou Diallo

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PhD, School of Advanced Studies in Social Sciences, Paris

Gerald Early

Director of Graduate Studies & Merle Kling Professor of Modern
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Helina Woldekiros

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Department of Anthropology
PhD, Washington University

Professors Emeritus

Jean Allman

J.H. Hexter Professor in the Humanities
PhD, Northwestern University

John Baugh

Margaret Bush Wilson Professor in Arts & Sciences
PhD, University of Pennsylvania

Rafia Zafar

Professor
PhD, Harvard University

Rudolph Clay

Professor & Subject Librarian
MLS, University of Michigan

Degree Requirements

- Global Black Studies, Graduate Certificate (p. 66)

Courses

AFAS 5000 Independent Work: Graduate Student

Independent Work: Graduate Student - Maximum independent study credit in African and African American Studies is 6 units total. Credit 6 units.

Typical periods offered: Fall, Spring

AFAS 5061 Sexual Health and the City: A StudioLab Course On the Politics of Reproduction

This StudioLab course creates an engaged space for students to learn about and develop projects with a community agency around the topic of the politics of reproduction. The politics of reproduction refers to the intersection between politics, gender, race, and reproduction. As a StudioLab course, student teams will partner with a St. Louis reproductive and sexual health agency to explore how agencies, communities, and individuals have been affected, adjusted, and reimagine strategies to allow men and women to pursue their reproductive agency and desires. Students will use an interdisciplinary approach to understand historical, medical, legal, racialized, and sociocultural issues surrounding reproductive choice, regulation of choice, abortion, pregnancy, sex education, new reproductive technologies, and reproductive justice movements. We consider the state's regulation of biological and social reproduction wherein increasing governance of private life, intimacy, and sexuality suggests the blurring of boundaries between public and private interests. Students will also examine the complex relationship between men's and women's life goals and constraints, on the one hand, and politics and public health management of sexual and reproductive health, on the other. In collaboration with their community partner, students will develop a project that addresses an identified need of the organization and the community it serves. Course readings will draw from the fields of history, legal studies, public health, feminist studies, Black Studies, policy, and anthropology.

Credit 3 units. Arch: HUM Art: HUM

AFAS 5090 Senegal: History, Politics and Culture

This course will study the history of Senegal in the modern period, beginning with the formation by French traders and Lebou/Wolof women of the Four Communes. It will then explore Senegal's unique position as the founding place of two major Islamic brotherhoods and the legacy of French assimilation policy. As the course moves into the contemporary period, it will give some attention to the Senegalese Diaspora, particularly in large urban centers such as New York, Detroit, Paris, and Milan. It will explore themes of caste, colonialism, assimilation and identity, negritude, Islam, gender relations, the 1960's arts movement, and the cultural life of Dakar, a major center of Francophone African culture. There will be an emphasis on the relationship between Islam and politics in contemporary society. This course is designed for students participating in the Dakar Summer Program in French and African Studies.

Credit 3 units. A&S IQ: HUM BU: BA, HUM EN: H

AFAS 5104 Black Decolonial Thought: Conceptualizing Epistemic Violence From Frantz Fanon to Achille Mbembe

It is a truism that colonization has deeply impacted African societies, but we should also acknowledge the multiple ways of thinking and doing that are deployed on the continent. One of the goals of this course is to depart from the dominant epistemology of European and North American scholarship. We will consider African societies and cultures in the diversity of their practices, beliefs, worldviews, and experiences, by using an Afro-oriented canon of knowledge production. If decolonization is the end of political domination of a territory by European empires, the decolonial turn involves a way of thinking about the self, society, and cultures on their own terms (or their ipseity), instead of being always viewed through Eurocentric lenses of reflection and theory imposed by colonization. We will study prominent Black authors who fed the stream of decolonial thought.

Credit 3 units. A&S IQ: HUM, LCD, SC BU: HUM EN: H

AFAS 5110 The Black South Atlantic

Since the transatlantic slave trade and the establishment of European colonial empires, Latin America and the African continent have remained culturally and geopolitically enmeshed. This course will therefore serve as an interdisciplinary expansion southward of the 'Black Atlantic,' a term made popular by black studies scholar Paul Gilroy. Our focus on the South Atlantic will be to reorient the debate toward black intellectual, cultural, and activist exchange between Africa and Latin America across history, politics, and cultural production.

Credit 3 units. A&S IQ: HUM, LCD, SC, WI BU: BA, HUM, IS EN: H

AFAS 5200 W. E. B. Du Bois: Scholar, Activist, and Creator of the Black World

W. E. B. Du Bois (1868-1963), without question, was not only the most important Black scholar of the 20th century, but he was also one of the most important U. S. scholars and thinkers of his time. The first Black to earn a Ph.D. from Harvard, Du Bois influenced Black intellectualism from the turn of the 20th century to the civil rights era, from the age of Social Darwinism to the Space Age. Du Bois evolved from liberal to socialist to communist and, with his second wife, Shirley Graham, a creative and intellectual in her own right, repatriated to Ghana, where he died. Acerbic, egotistic, brilliant, fluent in German, stunningly prolific, and an avowed "race man" Du Bois virtually invented new fields of Black writing and Black thought.

Credit 3 units.

Typical periods offered: Spring

AFAS 5235 Blackness in Brazil

Brazil is the country with the largest population of people of African descent outside of the African continent. However, with its history of race mixture under colonialism and slavery, many have imagined Brazil as a racial paradise such that race minimally influences one's social, political, or economic quality of life. The main focus of this course will be to understand from an interdisciplinary approach, first, the historical and sociocultural conditions of the African diaspora in Brazil. Second, we will focus on how national ideologies of racial mixture employ a rhetoric of inclusion that incorporates selective aspects of black culture into Brazilian national identity while excluding black people from the protections and pleasures of full citizenship. Beginning with the experiences of enslaved Africans, we will engage how Afro-Brazilians have developed ideas and spaces of freedom and belonging through social movements, religion, the arts, and resistance well into the black consciousness movements of the late twentieth and twenty-first centuries. In the course, we will collaboratively read, view, and listen to a variety of primary and secondary sources in order to analyze and write about blackness and the lives of black people in Brazil across history, intersecting, most predominantly, with the social structures of gender, sexuality, class, and religion.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: BA, HUM, IS EN: H

AFAS 5350 Theorizing Blackness: A Genealogy of Radical Thought in the Black World

What are the discursive histories and futures of blackness? Taking as its point of departure this question, the advanced-level course sets out to investigate the genealogies of black critical studies and their theoretical implications on how we talk about race, gender, nationality, and political resistance. We will explore such topics as the formation of racism and blackness, the cartographies of black resistance, Afropessimism, and the critiques of historical constructions of blackness as an analytic of history. Our interlocutors include such central figures to black studies as Sylvia Wynter, Frantz Fanon, Lewis Gordon, Saidiya Hartman et al, but also more recent scholarship that aims to further complicate our study of blackness - Zakiyah Jackson, Kevin Quashie, and others.

Credit 3 units. A&S IQ: HUM, SC BU: BA, HUM EN: H
Typical periods offered: Spring

AFAS 5402 Intersectionality

This course explores and engages the intellectual and political genealogies of intersectionality, a theory, analytic, framework, metaphor, and approach primarily employed by Black feminists and other feminists of color. We will examine intersectionality as a theoretical framework with attendant analytics, as well as the socio/political projects out of which it emerges and influences. In so doing, the scholarly materials in this course, primarily, examine the ways in which structures and categories of race, class, gender, sexuality, and disability create and maintain intersecting forms and experiences of difference that underpin overlapping social inequalities in U.S. society and abroad. Some of the other intersecting forms of social difference we will explore include, ethnicity, nation/migration, class, ability/disability, and indigeneity, reproduction, and HIV/disease status. Our approach to examining these categories/vectors of power will include feminisms of color, critical race theory/studies, queer theory/studies, queer of color critique, transgender theory/studies, and critical geography, all of which have shaped and been shaped by intersectionality.

Credit 3 units. A&S IQ: HUM, SSC, SC Arch: HUM Art: HUM BU: HUM EN: H, S

AFAS 5450 Writing Black Lives: The Theory and Literary History of African American Autobiography

This course is an intensive overview of Black autobiographical writing. We begin with the premise that the autobiography has been one of the earliest forms--and the major foundation--of the Black American literary tradition. We will begin with selective slave narratives and then proceed to variety of autobiographies--some by literary people, some by celebrities, some by politicians, some by people of opposing political orientations. We will also read some of the significant critical studies that have been written about Black autobiography and autobiography in general. The aim of the course is simple: To Understand the aesthetic nature, political purpose, and cultural history of Black American autobiography and its relationship to and departure from the larger tradition of autobiographical writing in the United States. We will also devote a portion of the course to looking at one major Black biographer who wrote about Black subjects: Shirley Graham Du Bois, who wrote books on Black heroic figures for young readers.

Credit 3 units.

Typical periods offered: Fall

AFAS 5500 Graduate Seminar in Global Black Studies: Approaches, Theories, and Methods

This graduate course is an interdisciplinary course in Global Black Studies for PhD or master's students enrolled in various programs throughout campus. The seminar offers an in-depth analysis and review of major themes in the interdisciplinary fields of Black Studies, African Diaspora Studies, Africana Studies, and the broader study of race. The course aims to expose students to the field of Black Studies and the analysis of Black lives, cultural productions, worlds, and histories. The class brings together classic, canonical texts of the black radical intellectual tradition with cutting-edge work published in the past two decades on blackness and race in the humanities and social sciences from the African continent and across the diaspora.

Credit 3 units.

Typical periods offered: Fall

AFAS 5510 Research Writing Seminar in Global Black Studies

This seminar will function as a writing workshop whose intention is to assist graduate students with incorporating a Black Studies lens into their dissertation prospectus. Further, this space will serve as a writing community through which we will conduct critical analysis of each other's work through a system of feedback and accountability. The seminar will focus on best practices for scholarly production, revision, crafting scholarly voice, and professional development, including abstracts, research proposals (e.g. a dissertation prospectus), grants, scholarly articles, and other professional writing. Students should use the seminar to ideally complete or workshop their prospectus, with the possibility of working on a grant application or journal article for publication.

Credit 3 units.

AFAS 5601 Historical Racial Violence: Legacies & Reckonings

There is growing awareness of the legacies of historical racial violence in the United States and a related increase in reckoning efforts. Area histories of enslavement, lynching, and other racial terror and dispossession relate to inequality, conflict, and violence in the same places today. These 'haunting legacies' include heart disease and other health disparity, homicide rates, white supremacist mobilization, and corporal punishment in schools. Meanwhile, many communities and institutions are moving to acknowledge and address legacies of historical racial violence in various ways. This course combines seminar-style readings and writing on legacies of racial violence with a practicum component, where individual students or groups of students will conceptualize and develop interventions intended to clarify and disrupt legacies of racial violence, facilitating contemporary reckoning. The practicum will explore and support a broad range of interventive efforts, including public policy measures, original research projects, archival development, commemorative efforts, and a related array of mediums, including visual art, design, film, digital projects, and other creative approaches.

Credit 3 units. A&S IQ: SSC, SC Art: SSC BU: BA EN: S

AFAS 5607 Education of Black Children and Youth

This course provides an overview of the education of Black children and youth in the United States. Covering both pre- and post-Brown eras, students in this course offers a deep examination of the research focused on Black education. The social, political, and historical contexts of education, as essential aspects of American and African-American culture and life, will be placed in the foreground of course inquiries. Prerequisite: Completion of any 1000, 2000, or 3000-level Education course, graduate standing, or permission of instructor. Enrollment Note: All students are enrolled onto the waitlist. Undergraduate students must enroll in Educ. 4607, and graduate students must enroll in Educ. 5607.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: BA, HUM EN: H

AFAS 5611 Construction and Experience of Black Adolescence

This course examines the construct of black adolescence from the general perspectives of anthropology, sociology, and psychology. It begins by studying the construct of black adolescence as an invention of the social and behavioral sciences. The course then draws upon narrative data, autobiography, literature and multimedia sources authored by black youth to recast black adolescence as a complex social, psychological, cultural and political phenomenon. This course focuses on the meaning-making experiences of urban-dwelling black adolescents and highlights these relations within the contexts of class, gender, sexuality, and education.

Credit 3 units. A&S IQ: SSC BU: BA EN: S UColl: ACS, SSC

AFAS 5630 Mapping the World of Black Criminality

Ideas concerning the evolution of violence, crime, and criminal behavior have been framed around many different groups. Yet, what does a typical criminal look like? How does race - more specifically blackness - alter these conversations, inscribing greater fears about criminal behaviors? This course taps into this reality examining the varied ways people of African descent have been and continue to be particularly imagined as a distinctly criminal population. Taking a dual approach, students will consider the historical roots of the policing of black bodies alongside the social history of black crime while also foregrounding where and how black females fit into these critical conversations of crime and vice. Employing a panoramic approach, students will examine historical narratives, movies and documentaries, literature, popular culture through poetry and contemporary music, as well as the prison industrial complex system. The prerequisite for the course is L90 3880(Terror and Violence in the Black Atlantic) and/or permission from the instructor, which will be determined based on a student's past experience in courses that explore factors of race and identity. For AFAS majors, this course counts as Area Requirement 2. Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: BA, HUM EN: H

AFAS 5645 Look Here, Karen: The Politics of Black Digital Resistance to White Femininity

In this course, we will explore the ways in which Black online publics use resistance strategies, such as mimetic imagery and racial humor, to call attention to white femininity and its deployment of the police against African Americans. We will trace the relationship between the police state and white femininity through the historical lens of 'innocence' and protection of the U.S. nation as well as the similarities and differences of Black online publics' responses in relation to past resistance strategies. What does it mean to be a 'typical' Karen in Internet culture? What are the aesthetic boundaries of Karens? And, what do digital platforms afford to Black users who make Karens visible? While paying attention to race, gender and class, this course offers students the skills to be able to collect and analyze online data, such as 'Karen' memes, in order to make critical arguments and observations that are grounded in historical accuracy. Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: BA, HUM EN: H

AFAS 5652 Black Women Writers

When someone says, black woman writer, you may well think of Nobel Prize winner Toni Morrison. But not long ago, to be a black woman writer meant to be considered an aberration. When Thomas Jefferson wrote that Phillis Wheatley's poems were beneath the dignity of criticism, he could hardly have imagined entire Modern Language Association sessions built around her verse, but such is now the case. In this class we will survey the range of Anglophone African American women authors. Writers likely to be covered include Phillis Wheatley, Harriet Wilson, Nella Larsen, Lorraine Hansberry, Octavia Butler, and Rita Dove, among others. Be prepared to read, explore, discuss, and debate the specific impact of race and gender on American literature. Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: HUM EN: H

AFAS 5700 Topics in Black Studies

This is a graduate seminar topics course. Please refer to the section as the topic will vary per term. Credit 3 units. Typical periods offered: Fall, Spring

AFAS 5890 Catholicism and Slavery

This course explores the role of Catholicism in the global history of slavery. Beginning with an assessment of how early Church theologians interpreted slavery in the Bible, the course will then grapple with how the Church justified taking a leading role in ending serfdom in Europe but endorsed the Atlantic slave trade, becoming one of its most invested participants. We will compare regional contexts of Catholicism & examining global continuities and regional particularities regarding the questions: What did it mean to be enslaved by the Catholic Church? How did enslavers and the enslaved approach Catholicism, as both institution and religious practice, in a context of unfreedom and oppression? In what ways did enslaved people resist Catholic enslavement, drawing upon or rejecting the teachings of Catholicism in their resistance?

Credit 3 units. A&S IQ: HUM, LCD, SC, WI BU: BA, HUM, IS EN: H

AFAS 5903 James Baldwin: Life, Letters, & Legacy

In his 1972 essay, No Name in the Street, James Baldwin recounts that he could never in good conscience just write because he had never been just a writer. Indeed, Baldwin saw himself as a public witness to the situation of black people, compelled to speak truth to power in whatever form he deemed necessary. Baldwin, as a black, gay, man, American, author, activist, and so much more, has served as an essential figure in theorizing the intersection of these presumably rigidity concepts. In this respect, this course will center on Baldwin, the thinker, as much as Baldwin, the author. We will examine his classic novels and essays and his work across many less-examined domains - theatre, sermon, dialogue, film, and short story. Moreover, while committing ourselves to close reading methods, we will situate Baldwin's works within a socio-historical context and consider how he shaped and was shaped by events beginning with the Civil Rights Era through our precarious contemporary moment in which he remains, often tragically, a timely voice. This course is only open to MLA, DLA, and AMCS MA students.

Credit 3 units.

Typical periods offered: Spring

Global Black Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 12
- **Certificate Length:** Two years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
 - Students are encouraged to apply for the Global Black Studies Graduate Certificate by the end of their first year and to begin coursework ideally in their first year but no later than the start of their second year in order to complete all requirements by the end of year two.
- **Grade Requirement:** B or higher

Required Courses

The Graduate Certificate in Global Black Studies is awarded to students who complete a PhD in a department in the Office of Graduate Studies in Arts & Sciences and who satisfy the following graduate certificate requirements:

- Two core seminars (6 credits)
 - AFAS 5500 Graduate Seminar in Global Black Studies: Approaches, Theories, and Methods
 - AFAS 5510 Research Writing Seminar in Global Black Studies
- Two additional graduate-level electives (6 credits)
 - Students may take one elective (3 credits) outside of AFAS with approval. In exceptional circumstances, both electives may be taken outside the department with approval from the AFAS Director of Graduate Studies.
 - For a list of sample graduate courses in AFAS, consult the full list of AFAS Graduate Certificate Requirements on the AFAS website.
- Annual consultation with the AFAS Director of Graduate Studies

According to the policy of the Office of Graduate Studies, Arts & Sciences, up to 6 credits can be double-counted toward both a student's PhD program and the certificate, with approval from both departments.

Website: <https://afas.wustl.edu/>

American Culture Studies

The **Graduate Certificate in American Culture Studies (AMCS)** enables doctoral students to develop multidisciplinary expertise and encourages them to bring that added competence to bear in dissertation research that, while satisfying the demands of their principal disciplines, is broad-based and informed by studies from across the humanities and the social sciences.

AMCS brings together a community of graduate students and faculty with overlapping interests in American topics. Through formal and informal intellectual exchange, they share knowledge, methods, and ideas across the boundaries that define the traditional academic disciplines. This intellectual community promotes the give-and-take of ideas, making graduate study more stimulating and graduate research more original and creative.

Students who satisfy certificate requirements will receive the Graduate Certificate in American Culture Studies along with the award of their PhD. This certificate is one of several interdisciplinary certificates offered by the Office of Graduate Studies, Arts & Sciences. The certificate helps its holders to build academic careers — including careers that involve interdisciplinary teaching — and to develop distinctive research profiles.

Contact:	Noelani Kelly, Graduate Program Administrator
Phone:	314-935-5216
Email:	n.kelly@wustl.edu
Website:	http://amcs.wustl.edu

Faculty

Director

Elaine Peña
Professor of Performing Arts, American Culture Studies, and Anthropology
PhD, Northwestern University

Assistant Director

Noah Cohan
Lecturer in American Culture Studies
PhD, Washington University in St. Louis

Director of Graduate Studies

Ila Sheren
Associate Professor of Art History and Archaeology
PhD, Massachusetts Institute of Technology

Director of Undergraduate Studies

Karen Skinner

Academic Coordinator
PhD, Saint Louis University

Program Faculty

Sabnam Ghosh

Lecturer in Asian American Studies
PhD, University of Georgia

Zachary Manditch-Protas

Lecturer in African and African American Studies and American Culture Studies
PhD, University of California, Berkeley

Dave Walsh

Lecturer in American Culture Studies
MA, Washington University in St. Louis

Degree Requirements

- American Culture Studies, Graduate Certificate (p. 68)

Courses

AMCS 5000 Independent Study

By permission of instructor
Credit 3 units.
Typical periods offered: Fall, Spring

AMCS 5190 Engaging the City: The Material World of Modern Segregation

Credit 1 unit.

AMCS 5371 Music and Performance: Pleasure and Politics in Popular Music

Christopher Small has asserted that music is not a thing but an activity--something that people DO. Starting from this premise, this course explores popular music in performance and introduces students to the flourishing scholarship at the intersection of performance studies, sound studies, and popular music studies. We will attend to sound, music, listening, and voice--and we will consider these elements of performance in combination with costume, choreography, stage design, and audience participation and interaction. Exploring the choices of performers and the expectations of audience members in settings from gospel churches to Radio City Music Hall, this course moves through a wide variety of musical genres, including cabaret, blues, opera, musical theater, and rock. We will consider the pleasure and politics embraced by everyday people and activists who have used music in protest movements from the labor movement to Black Lives Matter. We also attend performances around St. Louis,

guided by the interests of the class. Upper-level undergraduates and graduate students (enrolled under a 500-number) with an interest in music, theater, dance, cultural history, American studies, and African American studies are especially welcome.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

AMCS 5790 On Location: Exploring America

Every summer, AMCS travels to a new location to explore fundamental questions of national identity and meaning through the study of the interdependent relationship between culture and place. By visiting landmarks, historic sites, museums, memorials etc.-- sites best understood through direct engagement with consideration of their rich material, historical, political, and social meanings--students become in-the-field observers and learn from local experts and faculty. Past On Location destinations have included: California, Hawaii, New York City, Washington D.C., the Industrial Southwest, and American Indian landmarks. For more information and description of past travel sites, please visit http://amcs.wustl.edu/courses/on_location.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Summer

AMCS 6000 Introduction to American Culture Studies

An introduction to interdisciplinary approaches to the study of American culture. The class will examine the relationship between cultural criticism and scholarship on American culture, the history of the American Studies and cultural studies movements, the simultaneous turn to historicist approaches in literary studies and to textualist approaches to historical studies, the moral and interpretive implications of the shift from a modernist to a postmodernist stance in cultural inquiry, and the challenges that multiculturalist and transnational perspectives pose to the study of a national American culture. Many of the readings will emphasize trends in cultural history, but will also include works in anthropology, art and architectural history, literary history, media studies, political and social theory, and religious studies.

Credit 3 units.

Typical periods offered: Spring

American Culture Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** Varies. Students must complete all certificate requirements within PhD program length.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B or higher

Required Courses

The Graduate Certificate in American Culture Studies is awarded to students who complete the PhD in an Arts & Sciences department and who satisfy the following requirements:

- Complete 15 credits of coursework, structured as follows and in consultation/cooperation with the student's primary (PhD) program of study:
 - The core seminar AMCS 6000 Introduction to American Culture Studies (3 units)
 - Two multidisciplinary courses (6 credits) on American topics (5000 level or higher) designed in explicitly multidisciplinary terms; courses that satisfy this requirement will be determined in consultation with the Director of Graduate Studies
 - Two extradepartmental courses (6 credits) on American topics (5000 level or higher) based in fields that complement coursework in the student's primary (PhD) program of study, to be determined in consultation with the Director of Graduate Studies
- Routine consultation with the AMCS Director of Graduate Studies in addition to consultation with the student's principal PhD advisor.
- Completion of a PhD dissertation in the PhD program of study with the AMCS faculty advisor often serving as one of the "outside" readers on the oral defense committee and the dissertation defense committee.
- Maintenance of good standing within the AMCS program through regular participation in program functions and events.
 - Americanist Forums. Attendance at the monthly colloquium series is expected with exceptions considered related to residency, leaves, fieldwork, and dissertation research.

Students pursuing the Graduate Certificate in AMCS have the opportunity to teach a course in AMCS. To be eligible to teach for AMCS, students must have completed the certificate and their PhD program of study's Mentored Experience Requirement. Interested students should contact the AMCS DGS to learn about the process for

proposing a course. Course planning should begin well in advance; we recommend that students begin talking with the AMCS DGS and their PhD advisor at least one year prior to the semester in which they hope to teach.

For more information about program activities and requirements, please visit our Graduate Studies webpage.

Contact:	Noelani Kelly, Graduate Program Administrator
Phone:	314-935-5216
Email:	n.kelly@wustl.edu
Website:	http://amcs.wustl.edu

Anthropology

The graduate program in the Department of Anthropology at Washington University is a PhD program designed to educate and develop scholars and researchers who study the human condition through time and across cultures. Our graduates apply these skills to academics, business, government, and nongovernmental jobs and careers. Although candidates may receive an MA degree during the course of their study, the department does not offer a standalone master's degree. The Anthropology department has a strong tradition of graduate student satisfaction and close mentoring by faculty advisors. In addition, graduates of the Washington University Anthropology PhD program have a solid history of placement in highly desirable academic and nonacademic positions.

The Department of Anthropology has a strong three-subfield approach, with concentrations in archaeology, sociocultural anthropology, and biological anthropology. Applicants are required to choose a concentration from among the three subfields when applying. Program strengths in archaeology include the origins of agriculture and pastoralism, paleoethnobotany, zooarchaeology, geoarchaeology, landscape archaeology, and environmental archaeology. Sociocultural anthropology foci include politics, indigenous political movements, the politics of gender and sexuality, global health and the environment, and medical anthropology. Program strengths in biological anthropology include human and primate evolution, the ecology and conservation of modern primates, human physiology, biological variation in living human populations, quantitative studies of morphology and genetics, and human life history.

Contact Information

Email: Geoff Childs at gchilds@wustl.edu or Sarah Peck at pecks@wustl.edu

Phone: 314-935-5252

Website: <https://anthropology.wustl.edu/graduate-program>

Faculty

Chair

Crickette Sanz

James W. and Jean L. Davis Professor in Arts & Sciences
PhD, Washington University

Associate Chair

Xinyi Liu

Associate Professor
PhD, University of Cambridge

Director of Graduate Studies

Geoff Childs

Professor
PhD, Indiana University

Director of Undergraduate Studies

Sarah Baitzel

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PhD, University of California, San Diego

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PhD, University of Arizona

Maddalena Canna

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PhD, School of Advanced Studies in the Social Sciences of Paris (EHESS), PSL University

Talia Dan-Cohen

Associate Professor
PhD, Princeton University

Michael Frchetti

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Theresa Gildner

Assistant Professor
PhD, University of Oregon

Bret D. Gustafson

Professor
PhD, Harvard University

Anna Jacobsen

Senior Lecturer, Director of Medicine & Society Program
PhD, Washington University in St. Louis

A.J. Jones

Assistant Professor
PhD, Emory University

T.R. Kidder

Edward S. and Tedi Macias Professor in Arts & Sciences
PhD, Harvard University

Rebecca J. Lester

Professor
PhD, University of California, San Diego

Natalie Mueller

Assistant Professor
PhD, Washington University

Kyle Olson

Lecturer
PhD, University of Pennsylvania

Shanti A. Parikh

Professor
PhD, Yale University

Ilaria Patania

Assistant Professor
PhD, Boston University

Thomas Cody Prang

Assistant Professor
PhD, New York University

Elizabeth A. Quinn

Associate Professor
PhD, Northwestern University

Scott Ross

Lecturer
PhD, The George Washington University

David Strait

Professor
PhD, State University of New York–Stony Brook

Helina Woldekiros

Associate Professor
PhD, Washington University

Degree Requirements

- Anthropology, PhD, Archaeology Concentration (p. 79)
- Anthropology, PhD, Biological Anthropology Concentration (p. 85)
- Anthropology, PhD, Sociocultural Anthropology Concentration (p. 92)

Courses

ANTHRO 5000 Independent Studies

This course is for independent study.

Credit 1-3 units.

Typical periods offered: Fall, Spring

ANTHRO 5005 The Evolutionary and Health Impacts of Human Parasite Infection

Are parasites old friends or enemies we have been combatting for as long as humans have been around? Throughout our evolutionary history, humans have constantly interacted with parasites and other organisms that make their homes in our bodies. How did these relationships evolve and how does variation in social and economic factors alter human infection risk? Why do some parasite infections cause severe illness while others are often unnoticed? How might an evolutionary understanding of human-parasite relationships help us improve health outcomes? This class will explore these questions and more as we investigate how parasites have affected human evolution and health. Pre-requisites: L48 307A or equivalent highly recommended.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Fall

ANTHRO 5010 Seminar: Research Methods in Cultural Anthropology

This course is a graduate-level seminar, open to students across the social sciences, that provides hands-on training in a variety of methods used for collecting qualitative data in a systematic manner. Much of the course is devoted to developing interviewing skills that researchers can use in participant observation, semi-structured interviewing, person-centered interviewing, life histories, cultural domain analysis, and social network analysis. Classroom assignments are tailored to individual needs so that graduate students develop skills in practical and meaningful ways that apply directly to their research agendas. Enrollment is open to graduate students only.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5011 Methods: Proposal Writing

An introduction of issues and methods in the design of social science research, including field work, beginning with discussion of the philosophy of social science. Methods of falsification or validation of claims to knowledge in traditional anthropological contexts; readings include Kuhn and Campbell. Attention to the design of scientifically rigorous qualitative and quantitative research. Each student applies these concepts by designing an original proposal that meets both intellectual criteria and the requirements of funding agencies.

Prerequisite: Graduate standing.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5033 Nomadic Strategies and Extreme Ecologies

This course will explore the archaeology and anthropology of nomadic pastoral societies in light of their ecological, political, and cultural strategies and adaptation to extreme environments (deserts, mountains, the Arctic). The aim of this course is to understand both the early development of pastoral ways of life and how nomads have had an essential role in the formation and transfer of culture, language, and power from prehistoric time to the current era.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA, IS EN: S

Typical periods offered: Fall

ANTHRO 5053 Theoretical Approaches in Archaeology

This class is an in-depth examination of archaeological theory, including the development of modern archaeological thinking, relations with other fields and disciplines, and the aims and goals of modern archaeology.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5070 Seminar: Human Biology

In this graduate seminar on human biology, we will look at major themes and big ideas in human biology and human reproductive ecology. This will include looking at human growth and development, biological variation, and adaptation to unusual and challenging ecologies (e.g., high altitude). We will read a variety of texts on human evolution, human reproductive ecology of males and females, childhood development, and the history of research in human biology. The course will also look at the ways in which human biology is a key part of biocultural anthropology and how insights into human biology and variation can contribute to our understandings of human evolution in a biocultural perspective.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5074 Seminar: Paleoanthropology

Focus upon assessing interpretations of the human fossil record.

Credit 3 units.

ANTHRO 5080 Primate Ecomorphology

We will investigate the state of the science in primate ecomorphology, integrating current understanding of primate evolution, anatomy, and performance with that of primate ecology. Emphasis will be on synthesizing primate biomechanics and ecology toward a better understanding of form/function/evolution relationships in living and extinct species. Prerequisite: permission of instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5083 Major Topics Seminar in Physical Anthropology

This graduate reading seminar will provide students with a review of key literature and major issues in biological anthropology. Topics will include race, primate and fossil hominin tool use, adaptationism, the origin of language, evolution of the brain, variation among primates in diet, locomotion and social organization, modern human origins, and the human-chimp split, among others.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5088 Selected Topics in Physical Anthropology

Topics will be selected from current controversies or research in the fields of human or primate biology. Prerequisite: permission of instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5100 Humanitarian Interventions

This course offers a critical perspective on the field of humanitarianism—the humanitarian ethos or desire to help those in need as well as the humanitarian norms and practices that guide such interventions. What does it mean to help others, and why (and when) do people choose to do so? When is helping others a moral imperative? Why are some lives saved while others are left to suffer? The course introduces the historical, legal, and political foundations of

humanitarian response and investigates into the practices, contexts, and effects of humanitarian intervention. Course content will critically examine humanitarian interventions amid medical, environmental, and conflict contexts and inquire into humanitarian temporalities, spaces, politics, ethics, and care.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC EN: S

Typical periods offered: Fall, Spring

ANTHRO 5104 Topics in Anthropology

A course covering topics in one of the three subdisciplines of anthropology

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

ANTHRO 5107 Topics in Archaeology: Archaeology of the Living World

As anthropologists, archaeologists are familiar with the animate nature of reality as experienced by most people at most times in human history. Guided by such reality, people create material patterns that challenge archaeologists to identify them by attempting to elucidate what the makers might have experienced and intended, not what modern scientists might see through the lens of a clear division between animate and inanimate material. Increasingly, the default position of ignoring this challenge because it is difficult to make convincing arguments regarding the esoteric knowledge generating patterns in an animate world is no longer acceptable, morally or practically. This course explores some of the work archaeologists are undertaking to advance knowledge of past realities experienced by people generating material records we that can study from the perspective of relations between people and things of a mutually constitutive nature. This course is for graduate students only.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5110 Seminar: Ecology and Adaption

In this course, we will discuss and explore biological adaptation. Discussions will include the history of the study of adaptation and seminal works that have shaped our understanding of this phenomenon, as well as current approaches to studying and identifying adaptation in living and extinct species. Examples will be drawn from all aspects of biology, including genetic morphological, and behavioral studies. Finally, we will apply current understanding and investigation of adaptation toward the evolution of our own species in order to better understand the evolutionary pressures shaping our lineage.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5122 Affect, Emotion, and Feeling: Anthropology of the Evocative

This course reviews recent attempts in the social sciences to demarcate and define the scope and objects of the affective turn in cultural theory and, more broadly, to carve out a distinctly interdisciplinary space for the understanding of affect, emotions, feelings, bodies, and the dynamism of sociocultural matter. This course is open to graduate level students only. Anthropologists and other social theorists from Durkheim onward have considered the role of affect in questions of bodies, sensation, emotion, and social change. In recent years, the affective turn in the humanities and humanistic social sciences has brought renewed attention to these dynamics. For some, affect is contrasted with emotion; it is potential or capacity, not set cultural meaning. For others, affect is contrasted with structure or form; it is bodily sensation or intensity--dynamic, energetic, mobile. And for others still, affect might enable us to grasp how it feels to inhabit a life world, a particular atmosphere, texture, sensuality, or the feel of things. This course explores the genealogy and range of theories

of affect, emotion, and feeling, considering anthropology's distinctive contributions to and critiques of their study. We will discuss ways that centralizing affect, emotion, and feeling might disrupt dichotomies of structure/agency, opening up modes of analysis and enabling us to explore forms of life that exceed human subjects and socialities. Readings will tack between more theoretical essays and ethnographic representations of affect, sensuality, mobility, and emotion.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5124 Argumentation Through Ethnography

Ethnography is the traditional mainstay of anthropological academic writing. Through ethnography, anthropologists do more than simply describe a culture or a group of people; rather, they organize and present their field materials in particular ways in order to make intellectual, theoretical, and sometimes even political arguments. This seminar will explore the different ways anthropologists have used ethnography to make intellectual claims and frame theoretical or practical arguments. The aim of the course is to help students develop critical reading skills for engaging ethnographic materials as well as to explore the ways in which ethnography, when done well, can be a persuasive and engaging means of academic argumentation. This course is intended as a sequel to Anthro 472. Prerequisite: Anthro 472 or permission of instructor.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ANTHRO 5149 Caring for Country: Hunter Gatherer Ecologies

What makes humans special? Is it our use of tools? Language? Culture? Humanity has been defined on the basis of its uniquely well-developed capacities for using technology, language, and culturally encoded knowledge and belief systems. In this course, we will explore a new hypothesis of human exceptionalism: a fundamental tendency to cultivate and care for lands. Our genius for reshaping ecosystems and incorporating other species into our societies is intimately linked to our technological and communicative skills. We have used these skills to migrate into and reshape every Earthly environment. We will explore the ethnographies, oral and written histories, and archaeologies, of so-called hunter-gatherers around the world, learning about the ways they shaped and tended their homelands using ecological knowledge systems. In this era of human induced environmental change - from global warming, to mass extinction, to genetic engineering - it is critically important that we look to our species' true ecological history for the wisdom that will help us meet these challenges.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA, ETH, IS EN: S

Typical periods offered: Fall

ANTHRO 5150 The Archaeology of Politics and the Politics of Archaeology

How we study, interpret, present, and preserve the past is never isolated from broader concerns in society. In the currently polarized environment, the meaning of history and cultural heritage has taken on an unavoidable salience in political discourse. What is at stake is the ability to set the terms of conversations about national identity, cultural patrimony, illicit antiquities, war, and natural resource extraction, among many others. This course therefore addresses three questions: (1) how do archaeologists study politics in the past, (2) how does archaeological knowledge figure into politics (3) how is the creation of knowledge about the past inflected by present-day politics? To answer these questions, we will engage with a range of exemplary case studies that reveal the breadth and depth of the ways that scholars have examined the political in archaeology. Central themes in this course will concern archaeological methods and theory for studying ancient polities and political action in the past, conflict within and between polities, the use and abuse of archaeological

knowledge, archaeology and nationalism, colonialism, the political economy of archaeological fieldwork, labor in and as a subject of archaeological research, archaeology and public policy, as well as archaeology as a form of political action. We will confront numerous challenging topics, with the perspective that archaeology is far from a dusty esoteric pursuit, but rather a terrain of meaningful struggle between experts, funders, stakeholders, descendant communities, state bureaucracies, institutions, and a range of publics. Students will gain an in depth understanding of both how archaeologists have valuable knowledge to contribute to the study of politics as such as well as the political issues facing archaeology in the world today.

Credit 3 units. A&S IQ: LCD, SSC, SC Arch: HUM Art: HUM BU: BA, IS EN: S

Typical periods offered: Spring

ANTHRO 5163 Archaeology of China: Food and People

China is a country with a large population, diverse landscapes, and unique food. This course will explore the origins of Chinese food in the context of the formation of Chinese societies. During the last two decades, the archaeology of China has become a fast moving subject with advances in methods, theories and changes of key perceptions. In this context, the beginning and spread of food production in China has become one of the key questions in current archaeology. We will focus on the process of domestication of plants and animals in various regions of China during the Holocene. We will explore how those processes relate to other sectors of the Old World, such as those of South and Southwest Asia. This course will pursue answers to the following questions: Why the Chinese ways of living and eating are different from those in the West? How production and consumption in China were shaped by food globalization in prehistory?

Credit 3 units. A&S IQ: LCD, SSC BU: IS EN: S

Typical periods offered: Fall, Spring

ANTHRO 5180 Domestication: The Evolution of Our Multispecies Family

This course explores the evolution of the plants, animals, and microbes in human-mediated ecosystems. We call these evolutionary relationships domestication and they are at the heart of humanity's successful adaptation to nearly every ecosystem on Earth. From our millennia-deep friendship with gregarious wolves, to corn's continental conquests, to 'the industrial microbiome,' this course will ask how other species have evolved in response to human societies, and how societies have been shaped by these relationships. We will primarily draw on concepts and data from anthropology and evolutionary biology to understand the process of domestication.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA EN: S

Typical periods offered: Spring

ANTHRO 5188 Seminar: The Teaching of Anthropology

Teaching techniques: special problems in teaching of anthropological subject matter; guidance and training for student teachers of anthropology. Prerequisite: permission of instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5191 Primate Cognition

This course will investigate historical and current views regarding the cognitive capacities of non-human primates, and the extent to which these abilities are shared with humans. Topics for this class will include: social cognition, problem-solving, tool use, culture, communication, theory of mind, deception, self-recognition, imitation, and numerical cognition. The classes will involve discussion and critical evaluation of theory and methods in this challenging and exciting area of primate cognitive research.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

ANTHRO 5200 Communicating Archaeology

Nothing in science has any value to society if it is not communicated (Anne Roe, 1952) Science is not finished until it is communicated (Sir Mark Walport) There have never been more ways for archaeologists to communicate our research: we can write articles and books, produce videos and podcasts, post blogs, and engage students and the public through lectures. To master clear communication and convincing argumentation, though, requires clear thinking, the cultivation of expertise, and considerable practice. An objective of the class is to improve student communication skills across different genres, media, and styles of persuasion within archaeology. Communicating Archaeology is a platform for graduate students in archaeology to expand and amplify their communication and argumentation skills. The course emphasizes communicating across different media (e.g., writing, public speaking, lecturing, posters, videos, and audio). In addition to investigating effective communication techniques, we will practice regularly by writing, presenting, peer and instructor editing, and reworking drafts.

Credit 3 units.

Typical periods offered: Spring

ANTHRO 5203 Anthropological Genetics

This course will examine the principles of evolutionary genetics as applied to complex characters such as morphology, behavior, life history, and disease. Mathematical models of quantitative inheritance and evolution will be discussed. Special topics include kin selection, sexual dimorphism and conservation genetics. Prerequisite: Anthro 150A or introductory biology.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

ANTHRO 5204 Professionalization for Anthropologists

This course is for graduate students in anthropology or extraordinary undergraduates who are planning on applying to graduate school for anthropology (with permission of instructor). The purpose of this course is to develop and practice professional skills, including but not limited to: 1. Writing peer-reviewed journal articles 2. Writing grant proposals 3. Conducting peer-reviews and editing 4. Creating a conference presentation or poster 5. Writing a popular science story or press release 6. Creating a course syllabus 7. Creating a dossier of common academic job market documents: cover letter, research statement, teaching statement, diversity statement OR a resume and cover letter for a nonacademic job Throughout the semester, we will read examples of different kinds of professional writing and discuss the process involved in developing each. Students will select particular forms to work on based on their current needs and career goals. The skills that we cover will be adjusted according to the current needs and career goals of enrolled students, which will be assessed during the first week of class.

Credit 3 units.

Typical periods offered: Spring

ANTHRO 5210 Seminar: Writing Anthropological Reports and Essays

For students planning to write doctoral theses. Three class hours a week.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5211 Ethnobotany

Interrelationships between plants and people, especially in past societies. Recovery and analysis of plant remains from archaeological sites; interpreting subsistence and vegetation changes; medicinal, ritual, and technological uses of plants; plant domestication and agricultural intensification. Modern efforts to understand and preserve threatened traditional ethnobotanical practices.

Credit 3 units. A&S IQ: SSC, WI EN: S

Typical periods offered: Spring

ANTHRO 5216 Anthropology of Food

The rising interest in food research crosscuts various academic disciplines. This seminar focuses on aspects of food of particular interest in anthropology. The first 2/3 of the course is reading intensive and discussion-intensive. Each student will write short review/response papers for major readings. For the final third, we will still be reading and discussing, but the reading load will be lighter (and we will have a field trip) as students devote more time to their research paper. The research paper will be a major effort on a topic discussed with and approved by the professor. In most cases it will have to deal with cultural and historical aspects of a food, set of foods, form of consumption or aspect of food production. Papers will be critiqued, assigned a provisional grade, revised and resubmitted.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC EN: S

Typical periods offered: Fall

ANTHRO 5220 Writing in Anthropology

We look at forms of writing in anthropology. We examine the history of ideas and debates about what we can learn from ethnographies, and about how the particularistic report from the field relates to the development of general knowledge. We ask what makes for clear, analytical writing in anthropology, and to a great degree in other disciplines. We try out our ideas both on published texts and on students' own work in progress. Successful writing depends on knowing your audience, and that requires knowing the genre conventions for that audience. For example, we write differently for a specialist journal than we do for one that aims to attract a wide audience. Part of deciding how to write is understanding how particular kinds of gatekeepers (editors, anonymous readers, research funders, potential employers) will evaluate a text. Alongside of critically reading texts, we will discuss departmental colloquia. Depending on time, we may also invite students who are preparing a job talk to try it out in class. In each case, we will ask: how is the text structured? How do authors link their work to broader concerns in the field? Do you find this convincing? How do we decide if a text is sufficiently placed in a context? We will look for areas of strength and ways the text could have been improved. Graduate students from across the discipline of anthropology are welcome to participate, including students in archeology and physical anthropology. Most of what we will do is transportable across a range of disciplines, and therefore graduate students from other departments are also most welcome. Students must register unless they have already reached their course ceiling.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5250 Advanced Reading

Advanced Readings in Anthropology

Credit 1-6 units.

Typical periods offered: Fall, Spring

ANTHRO 5252 Aging in Cross-Cultural Perspective

Population aging, driven by increasing longevity and decreasing fertility, is a worldwide demographic transformation that is changing societies and social relationships at all levels, from family household interactions to national debates on policies and expenditures. This course, run in a seminar format, investigates global aging through the lenses of demography and cultural anthropology. The objectives are for students to gain an empirical understanding of current population trends and an appreciation for how the aging process differs cross-culturally. The first part of the course introduces basic concepts and theories from social gerontology, demography, and anthropology that focus on aging and provide a toolkit for investigating the phenomenon from interdisciplinary perspectives. The second part introduces students to data sets and analysis techniques that are key to documenting population aging at local, national, and global levels. The third part is devoted to reading and discussing ethnographies of aging from China, India, and elsewhere. Course assessment is based on data analysis exercises and written assignments.

Credit 3 units. A&S IQ: LCD, SSC, SC Arch: HUM Art: HUM BU: BA, IS EN: S

Typical periods offered: Spring

ANTHRO 5264 The Myth of Race

This course describes the history of the myth of race and racism from the Spanish Inquisition to modern times. Since race is not a biological term but a cultural term, it is important for students to understand the origins and connections of ideas of race and racism from its beginnings in western thought to its current usage. The historical and literature connections can be seen through out the writings and behavior of the Spanish Inquisition, to the Renaissance, through colonization and slavery, to the reconstruction, to the late nineteenth century, to the early twentieth century, to modern times. In fact, the early history of anthropology can be traced through racist history.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ANTHRO 5290 Environmental Archaeology

This course intends to introduce students to lines of evidence used in the interpretation of past landscapes, to discuss how we can conceptualize changing human ecological relations, and to consider how we can identify the influence that humans have on their environment. Special emphasis is placed on human-animal-plant relations using case studies from around the world. Combining both lecture and seminar sessions, this course aims to ensure that students are aware of several of the basic methods of bioarchaeological and palaeoenvironmental reconstruction as well as the application of these methods to the interpretation of past landscapes and human impacts on them.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

ANTHRO 5305 Seminar: Selected Topics: Public Scholarship and Multidisciplinary Approaches in Archaeology

An advanced seminar open only to career archaeologists.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5310 Health, Healing and Ethics: Introduction to Medical Anthropology

This course will offer a broad examination of health, healing and ethics in cross-cultural perspective. Specific topics include the cultural construction and organization of medical systems; social class as a factor influencing health status and access to health care; health

and economic development; and the exportation of biomedicine worldwide. Ethical dilemmas associated with genetic testing, new reproductive technologies, organ transplants, and with global disparities in health will receive particular attention.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: ETH EN: S

ANTHRO 5312 Norms, Networks, and Repertoires: The Anthropology of Institutions

We live our lives in social institutions: schools, courts, offices, hospitals, churches, and so forth, each one shaped by norms or rules, in which people form networks and draw on their repertoires for social action. Anthropologists and sociologists study institutions through ethnography, the close study of everyday interactions, albeit also incorporating approaches from politics and economics, and largely shaped by the traditions of social pragmatism. We explore the theoretical and empirical dimensions of an ethnographic and pragmatist approach through readings of Goffman, Foucault, and Bourdieu, and of more recent analyses of schools, courtrooms, immigration police, science laboratories, art, and other institutions.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5313 Environmental Interactions and Human Health

Explore topics of Environmental Interactions and Human Health

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Spring

ANTHRO 5320 Disability Anthropology

Disability is everywhere: across cultures, it is present in our environments, in our media, and in our personal and familial lives. This discussion-based course recognizes disability not as a biomedical impairment but as an intersectional, constructed category of difference. Disability anthropology, which seeks to understand embodied experiences of disability through ethnography and sociocultural models of disability, is a recently emergent field. Following an introduction to disability activism, theory, and representation, our class will analyze examples of disability anthropology, including autoethnography, ethnographic film, and performance ethnography. As we collectively contribute to an accessible classroom, students will develop a final project that examines a physical space, policy, or other resource at WashU that could be made more accessible. Students will present their projects to the WashU community

Credit 3 units.

Typical periods offered: Spring

ANTHRO 5323 Life At the Extremes: A Human Biology of Adaptation to Environmental Extremes

The Arctic Circle, Mount Everest, the Sahara Desert, poverty, and obesity, and even space! These are all extremes some humans experience. Using primary literature and media resources, this course will explore how humans biologically, culturally, and technologically manage environmental extremes.

Credit 3 units. A&S IQ: NSM BU: SCI

ANTHRO 5330 Seminar: Selected Topics in Archaeology

Selected topics in Anthropology

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5365 Seminar: Problems in Applied Data Analysis

A consideration of complications in the analysis of non-experimental social science data by traditional inferential and descriptive methods. Included are issues such as null hypothesis testing versus effect size, clinical significance versus statistical significance, confidence intervals, the effective use of graphical methods, the interpretation of explained variance, measurement error, sample size and power, the treatment of outliers and missing data, the use of ratios and residuals for statistical control, transformations, significant figures, repeatability, the assumption of linearity, conditional probability, accuracy and precision, sensitivity and specificity, predictive validity, regression to the mean, ecological correlation, Simpson's Paradox, Lord's Paradox. This course is open to graduate level students only.

Credit 3 units.

Typical periods offered: Spring

ANTHRO 5366 Europe's New Diversities

Since the late 1980s, three major upheavals have transformed European senses of identity. The demise of the Soviet Union has forced citizens of new post-socialist nations to forge new senses of belonging and new strategies of survival. The rise of a new public presence of Islam and the growth of children of Muslim immigrants to adulthood have challenged notions that Europe is a secular or post-Christian space. Finally, the heightened authority of European institutions has challenged the nation-state from above, and the granting of new forms of subnational autonomy to regions and peoples has challenged it from below. The new Europe is increasingly constituted by way of regional identifications, transnational movement(s), and umbrella European legal and political organizations; these new realities occasion new rhetorics of secularism, nationalism, and ethnic loyalties. We examine these forms of diversity, movement, and debate by way of new works in anthropology, sociology and political science.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: IS EN: S

Typical periods offered: Spring

ANTHRO 5402 Quantitative Methods in Anthropology

This course provides an introduction to quantitative methods in anthropology. Standard analytical procedures are introduced through the lens of linear modeling using the R programming language. No prior experience in R is required. The topics covered include measurement theory, data description, hypothesis testing and the multiple comparison problem, correlation and regression, analysis of variance, clustering, power, non-parametric methods, and multivariate methods such as principal component and linear discriminant analysis.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5422 Fundamentals of Archaeology

Archaeology plays a critical and unique role in understanding the human past. Through study of the methods and theories of archaeology, and a survey of important firsts in the human past, this course introduces students to the way archaeologists use material culture to reconstruct and understand human behavior. Chronologically ordered case studies from around the globe are used to look at social, ecological, and cultural issues facing humans from the earliest times to the present. Students gain practice reconstructing the past through hands-on participation in two 1-hour labs focusing on lithics and animal bones. By the end of the course, students are expected to be able to think critically about how the past is presented, and why, and the importance of the past as it relates to the present and future.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

ANTHRO 5430 Fundamentals of Physical Anthropology

A survey of the fossil evidence for human evolution. The course includes discussion of the genetics of human variation and evolution, the study of living non-human primates, and the fossil record and its interpretation. An evolutionary perspective is used in an attempt to understand modern humans from the naturalistic point of view.

Credit 3 units.

Typical periods offered: Fall, Spring, Summer

ANTHRO 5435 Behavioral Research At the St. Louis Zoo

Students conduct research at the St. Louis Zoo. Training in designing of projects and analysis and interpretation of data. May be repeated for credit. Prerequisite: permission of instructor.

Credit 3 units. A&S IQ: NSM, WI Art: NSM BU: BA

Typical periods offered: Fall, Spring

ANTHRO 5440 Introduction to Cultural Anthropology

This course is team-taught by Professors Childs and Thomas. Each professor gives half the lectures in each section, so Section 1 (1:00-2:00 pm) and Section 2 (9:00-10:00 am) are identical. The course introduces the basic concepts, theories, and methods of Cultural Anthropology, an academic discipline that studies the diversity of human cultures and societies. The purpose is to provide a broad perspective on the types of research that anthropologists undertake, and to engage in a critical dialogue on how the work of anthropologists contributes to understanding the human condition. Introduction to Cultural Anthropology is a portal into more advanced anthropology courses, and is a requirement for all anthropology majors. Examination Schedule: Exams, at which attendance is required, will be given from 7:00 to 8:00 pm on the following dates: Tuesday, February 20; Tuesday, March 27; and Tuesday, April 24. Makeup exams will be given only under exceptional circumstances that are properly documented. Therefore, do not schedule anything that conflicts with the evening exams.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA EN: S UColl: CD

Typical periods offered: Spring, Summer

ANTHRO 5442 Engineering Authority: Design, Architecture, and Power in Africa

Do water meters have politics? Can architects manufacture consent for political repression or engage in activism? What happens when designed systems fail? Design is everywhere. It is in the water you drink; it is in the built material and digital spaces you hang out in; and it is in the chair you are sitting in. And yet, perhaps because of its ubiquity, design receives very little attention from scholars in the humanities and even less from African studies. In this course, we will examine a number of case studies, from minor architectures and ruins in Monrovia to hydraulic engineering in Johannesburg and iconic architecture in Casablanca to DIY market spaces in Nairobi and insurgent public space-making in Kinshasa. We will explore the ways that designers, architects, and technocrats engineer authority and how (sometimes) urban residents take it apart. One potential definition (among many other potential definitions) of design could be the following: the practices that humans employ to arrange, engineer, plan and fashion their material, digital, and social environments. But designs are also artifacts -- master plans, prototypes, and brands -- that occupy social lives independent of their assigned functions. Design is often about aspirations for a better world and finding technological and aesthetic solutions to social problems. Yet the products of design -- from zoning codes and service delivery networks to iconic built structures -- seem to always invite failures, disruptions, hackings, and ruination. A central argument in this course is that understanding design is also key to understanding power, inequality,

and insurgency in Africa. We will draw our texts and case studies from places that are normally left off the map of design studies -- African cities and towns -- and explore the applicability of these theories to St. Louis.

Credit 3 units. A&S IQ: SSC Art: CPSC, SSC, VC BU: BA EN: S

Typical periods offered: Fall

ANTHRO 5452 In the Field: Ethnographic and Qualitative Methods

This course provides an introduction to ethnographic and qualitative research. Ethnography is the study of culture and social organization primarily through participant observation and interviewing. Ethnographic research provides descriptive and interpretative analyses of the routine practices of everyday life. Ethnographic accounts represent different ways people live and make sense of their experiences; they describe the types of social organization (e.g., gender relations, class systems, racial divisions, cultural contexts) that, in part, serve to structure or pattern social behavior. Students conduct a small-scale qualitative research project; in the process, they gain skills in various qualitative research methods. This course is suitable for both undergraduate and graduate students. One purpose of the course is to help students plan for subsequent thesis research, independent study projects, or dissertation research.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

ANTHRO 5473 Social Theory and Anthropology

A seminar on social theory and its ethnographic implications. Course combines major works of modern social theory, including Marx, Weber, and Durkheim, with current work by contemporary anthropologists, such as Clifford Geertz, Eric Wolf, Marshall Sahlins, and Fredrik Barth, and ethnographers from related disciplines, such as Pierre Bourdieu and Paul Willis. Prerequisite: Previous anthropology coursework or permission of instructor.

Credit 3 units. A&S IQ: SSC, SC EN: S

Typical periods offered: Fall

ANTHRO 5481 Zooarchaeology

Zooarchaeology, the study of animal bones from archaeological sites, provides key information for archaeologists on human diet and subsistence practices through time and on human-animal relations. The goal of this course is to introduce students to approaches and techniques employed in zooarchaeological studies, focusing hands on identification of mammalian bones from archaeological sites.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

ANTHRO 5500 Dissertation Research

Dissertation Research

Credit 1-9 units.

Typical periods offered: Fall, Spring

ANTHRO 5502 Decolonizing Anthropology

Through books like Linda Tuhiwai Smith's book *Decolonizing Methodology*, tribal IRB's, and open letters, Indigenous people and tribal governments make clear how they want scientists to conduct research with their communities. How does anthropology reckon with its past ties with colonialism? How do we responsibly use scholarship from the past while working toward decolonization and anti-racism? This class will compare work by Indigenous people and people of color calling for decolonization and anti-racism, studies done using decolonizing methodologies, and widely read works of anthropology throughout the discipline's history. For example, we will read an excerpt from an anthropology textbook assigned at WashU in 2000



about an Eskimo and compare it to Native Alaskan scholar Heather Gordon's participatory research with Native Alaskans. During the last part of the class, we will learn about the roots of global inequality to highlight the structural conditions.

Credit 3 units. A&S IQ: LCD, SSC EN: S

Typical periods offered: Fall

ANTHRO 5518 Anthropology and Development

What is 'development'? Economic progress for all? A slow and gradual 'improvement' in the human condition? Helping people with 'projects'? Westernization? Modernization? The sorting out of bodies that are useful and can be put to work from those less useful bodies that must be contained, imprisoned, or killed? The militarized accumulation of capital? The commodification of labor? The exhaustion of nature? In this advanced seminar we will consider how anthropologists - as writers, analysts, and theorists - have engaged the theories, meanings, practices, and consequences of (sometimes externally directed) economic and political change. We focus on issues of the contemporary moment: oil; urban poverty and inequality (sex work, migration, water, debt, and cash transfer programs); and cultures of militarism. The course is designed to provide a graduate-level introduction to theory and ethnography based on intensive reading, discussion, critique, and writing, with revision. It is open to advanced undergraduates and fulfills writing-intensive (WI) requirements, as well as capstone requirements for some majors.

Credit 3 units. A&S IQ: LCD, SSC, SC, WI Art: SSC BU: ETH EN: S

Typical periods offered: Fall

ANTHRO 5520 Applied Anthropology

This course explores the field of applied anthropology and its approach to understanding human social problems. The focus is on the qualitative and quantitative information applied anthropologists use to study practical human social problems. We will examine the four important factors that influence the practical application of theories and methods to social problems: (1) the specific challenges faced by individuals with particular social identities; (2) the coping strategies developed by local groups and the sustainability of their efforts; (3) the interests and objectives of key actors involved; and (4) the goals, identities, and ethics of researchers. Taking a comparative perspective, the course employs an ethnographic, historical, and geographic approach to understand local problems within global contexts. Students will engage in research projects applying anthropological concepts and methods, thereby scrutinizing the contexts in which information is collected, analyzed, disseminated, and utilized by applied anthropologists.

Credit 3 units. A&S IQ: SSC

Typical periods offered: Spring

ANTHRO 5550 Primate Adaptation and Evolution

How is migration controlled, monitored, regulated, perceived, and experienced in the American melting pot? How does the United States' history of immigration play into the politics surrounding migration today? What is the influence of migration policies on the everyday lives of migrants residing within the U.S.? What particular opportunities and challenges are presented by being a migrant in the U.S.? Who is migrating to the U.S., and why? This course will provide a comprehensive overview of migration in the U.S., providing students with valuable knowledge not only about the laws and policies that govern migration but also about the lived experiences of migrants. Specifically, we will discuss the history of migration in the U.S., immigration law, the migration policies of recent administrations, the U.S.-Mexico border, border surveillance, health, mental health, public perception of migrants, refugees, asylum seekers, undocumented migrants, sanctuary cities, politics and migration, and Latin American migrants. We will welcome guest speakers working in the field of migration throughout the semester, and students will have the

opportunity to ask them about their work as well as their opinions on migration policy in the U.S. Class materials will include articles and book chapters from the fields of anthropology, political science, history, public health, sociology, and psychology as well as short videos, documentary films, and newspaper articles. Additionally, we will incorporate discussions on current events surrounding migration in the U.S. by following weekly news coverage on this topic. This course will be useful for students hoping to work with migrants in a variety of settings as well as for those hoping to pursue policy, research, or political careers related to this topic.

Credit 3 units.

Typical periods offered: Spring

ANTHRO 5565 Biomolecular Archaeology: Are You What You Eat?

A revolution is underway in archaeology. Working at the cutting edge of isotopic and genetic technologies, researchers have been probing the building blocks of ancient proteins, life-DNA, fats and microfossils - to rewrite our understanding of the past. Their discoveries and analyses have helped revise the human genealogical tree and answer such questions as: Are you what you eat? How different are we from the Neanderthals? Who first domesticated plants and animals? What was life like for our ancestors? In this class, we will address those fundamental issues to understanding human nature. Here is science at its most engaging.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ANTHRO 5591 Human Functional Morphology

A detailed consideration of the functional correlates of muscle-skeletal form in recent and ancient humans and our close primate relatives, as a means for understanding the behaviors responsible for driving the evolution of human anatomy. Emphasis is placed on the structure and development of bones, joints and teeth, the soft tissues which impinge upon individual bones, and the biomechanical demands affecting bone and joint structures. Anthro 5591 is for graduate students only.

Credit 3 units.

Typical periods offered: Fall, Spring

ANTHRO 5597 Biomarkers: Measuring Population Health, Reproductive, and Social Endocrinology

How do we study contemporary human biology and population level health? How do we investigate individual differences in health within a larger population? In this course, we will specifically address these questions by looking at how anthropologists, nutritionists, and public health workers investigate individual and population level health. This will be done through the study of biomarkers collected from individuals. In this class, we will discuss the theory behind the use of biomarkers, the underlying biology and physiology of the human body reflected in these data, and the methods used in collection and analyses of biomarkers. Finally, we will discuss how biomarkers can be integrated into studies of population and individual level health.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

ANTHRO 5600 Ethnobiology Journal Club

Students in this journal club will meet weekly with ethnobotanists, ethnozoologists, and ecologists from various St. Louis institutions (including Washington University, UM-St. Louis, St. Louis University, and the Missouri Botanical Garden) to discuss recent publications and ongoing research. Enrolled students will attend the journal club every week, and once per semester, will choose a paper and lead the discussion.

Credit 1 unit.

Typical periods offered: Fall, Spring

ANTHRO 5615 Queer Medicine: Theories, Methods, Provocations

This seminar explores the intersections of queer and medical anthropology to consider: How do queer experiences challenge medical authority and its influence on the cultural construction of bodies, productivity, and life itself? What theories and methods might characterize a queer medical anthropology? Attending to historical accounts of queerness in medicine, we will center ethnographic studies of queer lives in medical contexts. We will discuss topics including diverse forms of reproduction and kinship, medical constructions of sex and gender, and interventions in queer healthcare. Drawing from intersectional literature in crip theory and Black studies, we will further examine how disability and race are entangled in queer medical encounters. Students will critically reflect on and propose theories and methods for a queer medical anthropology as they work on final papers, presentations, and zines for an end-of-semester symposium.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5621 Anthropology of Human Birth

This course will examine the interaction between human biology and culture in relation to childbirth. Emphasis will be placed on understanding the cultural challenges posed by the physiology of human reproduction, the ways various cultures have attempted to meet those challenges, and the resultant consequences that this has had for women's lives. The course will draw on material from human anatomy and embryology, paleoanthropology, clinical obstetrics, public health, social anthropology, the history of medicine, and contemporary bioethics.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: ETH EN: S

Typical periods offered: Fall, Spring

ANTHRO 5655 New Advances in Archaeology

Archaeological research is moving at an increasingly rapid pace, with advances in archaeological methods and theory propelling new interpretations and understandings of archaeological findings. This course we will focus on contemporary developments in archaeology, with an emphasis on current trends in theory, method, and discovery. The objectives of the course are to place emerging trends in archaeological research in a historical context, to understand new methods, and to explore how various theoretical approaches influence the conduct of archaeological research around the globe.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ANTHRO 5700 Advanced Topics in Anthropology:

Advanced Topics in Anthropology may differ by semester.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5712 Seminar: Advanced Social Theory

This course covers advanced readings and topics in social theory and explores the contemporary application and development of social theory in cultural anthropology, the interpretive social sciences, and the humanities. Engaging key theories and thinkers, we examine their relevance for understanding the complexities of power, culture, and society in today's global world, as well as medicine, citizenship and inequality, the body and experience, among others. This course is designed for graduate students, with advanced undergraduate students admitted by permission of the instructor.

Credit 3 units.

Typical periods offered: Spring

ANTHRO 5720 Geoarchaeology

Geoarchaeology involves the application of analytical techniques, concepts, and field methods from the earth sciences to help solve archaeological problems. Issues explored in this course include human and environmental processes involved in archaeological site formation, the sedimentary context of archaeological remains, soils and sediments relevant to archaeology, the relationship between past settlement and landscape evolution, paleoclimatic reconstruction, human impacts on the environment, geological sourcing of artifact proveniences, and remote sensing of the physical environment. Several field trips to local archaeological/geological sites provide an opportunity to understand how geoarchaeology is applied to specific research problems.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

ANTHRO 5730 Introduction to GIS for Anthropologists

Use of GIS is rapidly becoming standard practice in anthropological research. This course will introduce students to the basic theories and techniques of GIS. Topics will include the application of GIS in archaeological survey and ethnographic research, as well as marketing, transportation, demographics, and urban and regional planning. This course will enable students to become familiar not only with GIS software such as ArcGIS, but also the methodologies and tools used to collect and analyze spatial data. Students will gain expertise engaging with data situated across a number spatial scales, from households, communities and cities to landscapes, nation-states, and global phenomena. Students will need to work on their own laptops, but no software purchases are necessary.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

ANTHRO 5740 Social Landscapes in Global View

From the beginning of the human campaign, societies have socialized the spaces and places where they live. This socialization comes in many forms, including the generation of sacred natural places (e.g., Mt. Fuji) to the construction of planned urban settings where culture is writ large in overt and subtle contexts. Over the past two decades or so, anthropologists, archaeologists, and geographers have developed a wide body of research concerning these socially constructed and perceived settings -- commonly known as landscapes. This course takes a tour through time and across the globe to trace the formation of diverse social landscapes, starting in prehistoric times and ending in modern times. We will cover various urban landscapes, rural landscapes, nomadic landscapes (and others) and the intersection of the natural environment, the built environments, and the symbolism that weaves them together. Chronologically, we will range from 3000 BCE to 2009 CE and we will cover all the continents. This course will also trace the intellectual history of the study of landscape as a social phenomenon, and will investigate the current methods used to recover and describe social landscapes around the world and through time. Join in situating your own social map alongside the most famous and the most obscure landscapes of the world and trace the global currents of your social landscape!

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA, IS EN: S UColl: CD

Typical periods offered: Fall

ANTHRO 5771 Out of the Wild: Domestication and Socioeconomic Diversity in Africa

The reason for the beginnings and spread of food production during the early Holocene in so many parts of the world is one of the most interesting questions in archaeology. It now seems likely that there are many different pathways to domestication. In Africa, there is a record of up to several million years of human existence as hunter-gatherers before some human populations adopted food production. Domestication of plants and animals about 10,000 years ago resulted

in fundamental changes in human societies. It provided the basis for the increase in settlement densities, specialization and social stratification, and general decrease in mobility and dietary diversity, characteristic of non-hunter-gatherer societies in the modern world. In this seminar, the class will explore the phenomenon of domestication, and the spread of food production, surveying the evidence for manipulation and domestication of plant and animal species by prehistoric peoples in Africa. We will focus on how and why domestication occurred, and factors that influenced its spread, and interactions between late hunter-gatherers and early pastoralists, and intersections with complex societies of the Nile. We will also look at the contributions of Africa to understanding pathways to food production world wide.

Credit 3 units. A&S IQ: LCD, SSC, WI Art: SSC EN: S

Typical periods offered: Spring

ANTHRO 5790 Meltdown: The Archaeology of Climate Change

This course examines the temporal, geographical, and environmental aspects of past climate changes, and by using specific examples, explores how climate changes may have affected the evolution of human culture and the course of human history. Archaeological and documentary examples from the Americas, Africa, Asia, Europe, and the Near East will be used to explore if or how significant events in human history have been influenced by changes in climate.

Credit 3 units. A&S IQ: SSC Art: SSC BU: IS EN: S

Typical periods offered: Spring

ANTHRO 5802 Theories and Practice of Landscape Archaeology

The study of landscapes as a particular framework for understanding the archaeological record has become increasingly widespread in the discipline today. Yet the theoretical background for defining landscapes is commonly disconnected with the actual practical application of landscape archaeology. What exactly do we mean by landscape archaeology, what is its utility, and how do contemporary methods of analysis and interpretation change the way we consider archaeology through this conceptual paradigm? This course will explore the theoretical basis and current archaeological approaches to landscape and address its distinction to, and overlap with, other prevalent concepts such as environment, ecology, place, and space. The course will also place focus on concrete methodological and practical approaches that differentiate Landscape Archaeology from other approaches -- as well as illustrate their points of convergence.

Credit 3 units.

Typical periods offered: Fall

ANTHRO 5803 Advanced GIS Modeling and Landscape Analysis

The aim of this course is to learn to analyze archaeological data in terms of its spatial layout, geography, ecology, and temporal dynamics, using Geographic Information Systems and associated computer modeling techniques. A focus is placed on the relationship between natural environments, cultural geography, and the mapping of archaeological landscapes, and on the archaeologist's ability to accurately recover, reconstruct, and analyze this relationship in a virtual environment.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ANTHRO 5885 Global Mental Health: Medical Pluralism and Cross-Cultural Care

What does global mental health mean for different actors and stakeholders? This course will examine the history, interventions, and critiques of global mental health. We will explore how diagnosis, distress, and treatment are experienced in different cultural and geographic contexts. Moreover, we will consider how biomedical psychiatry complements and conflicts with other forms of healing

expertise. We will also consider mental health disparities, and critically reflect on the successes and challenges of global mental health interventions. This course will draw on materials from different disciplines, including anthropology, public health, psychiatry, social work, long form journalism, and guest speakers to examine topics in global mental health, such as gender and sexuality, migration and displacement, environmental determinants and climate change, and global crises like COVID-19. Our course materials will draw on research carried out in a variety of locations, including the United States, India, Iran, Italy, Botswana, Brazil, and Thailand.

Credit 3 units. A&S IQ: LCD, SSC BU: BA, IS EN: S

Typical periods offered: Fall

ANTHRO 5942 American Indians and American Empire

This course critically explores the past and present struggles of Native Americans against white settler colonialism. We trace connections between U.S. domestic policy and imperialist ideologies, politics, and violent war from the United States to the Philippines to Latin America and the Middle East. By reading work by Native American and non-Native scholars, writers, and activists, we will consider how issues of race, class, gender and sexuality, violence, policing and militarism, nature, education, language, and sovereignty are intertwined with coloniality, forms of anti-colonial resistance, and the making of decolonized futures. Readings will be interdisciplinary, drawing on anthropology, history, politics, and literature. Students will develop research projects through case studies of their choosing.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA, IS EN: S

Typical periods offered: Spring

ANTHRO 7883 Master's Continuing Student Status

Master's Continuing Student Status

Credit 0 units.

Typical periods offered: Fall, Spring

ANTHRO 7884 Masters Nonresident

Credit 0 units.

Anthropology, PhD, Archaeology Concentration

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required: 42**
- **Degree Length:** Up to five years
 - Students are expected to complete the degree within five years (10 semesters).
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B–

Universal Departmental Requirements

The following is an abbreviated list of requirements that apply to all concentrations of the PhD in Anthropology. Each concentration also has its own additional guidelines and requirements. A more comprehensive description of the requirements (including additional requirements for each of the three concentrations: archaeology, biological anthropology, and sociocultural anthropology) can be found in the Graduate Student Handbook (PDF). All students in the PhD program are expected to satisfy the academic performance requirements of the Office of Graduate Studies, Arts & Sciences, which can be found in the General Requirements (p. 42) section of this *Bulletin*. Similarly, all concentration requirements are in addition to those set out here for the department as a whole.

Degree Length and Course Units

Students are expected to complete the degree within five years. All students must complete a minimum of 42 units of graduate-level coursework for the PhD. A typical semester course load for the first year of study is 12 units. The semester course load for the second year is typically 9 units. After 42 units have been completed, students will work with their advisors to identify the appropriate registration options to maintain full-time status.

Master's Degree

The department does not admit students for a standalone master's degree; completion of the MA degree along the way to the PhD is a required step in the process of earning the PhD.

Students are expected to receive their MA degree by the end of their second year or fourth semester of full-time study.

The universal requirements for the MA in Anthropology are as follows, although each concentration has additional requirements, such as a second-year paper, project, or portfolio:

- **Theory requirement.** All students are required to take ANTHRO 5473 Social Theory and Anthropology during their first year. Under special circumstances, this requirement may be delayed or waived by petitioning the departmental faculty. This request should be initiated through the student's advisor.
- **One subfield course requirement.** Graduate students earning a PhD in Anthropology are expected to have familiarity across the subfields of anthropology. To this end, all students must complete at least one course taught by a faculty member in the anthropology department in one subfield other than their own. Courses taken in other concentrations should strengthen the student's understanding of the subfield, complement their research, and, ideally, enhance their ability to teach across subfields. Students with good cause to substitute prior extensive coursework in the subfield — especially in the context of a master's degree from another university — for the other subfield requirement may petition the relevant subfield faculty to do so.
- **Credit units.** The Department of Anthropology requires 42 credit units for the award of an MA degree without a thesis.
- **Petition for the award of the master's degree.** Once a student has completed all requirements for the MA degree, the student and their advisor submit a petition to the chair. The chair circulates the petition to the entire faculty and reports the successful completion of requirements to the Office of Graduate Studies, Arts & Sciences.

Doctoral Candidacy

Although the Department of Anthropology only accepts students who wish to pursue the PhD, students are not officially admitted to candidacy for the PhD immediately upon entry into the program. Admittance to candidacy for the PhD program requires the successful completion of the requirements of the MA degree as well as of the requirements listed below. Continuation for the PhD requires that the student be advanced to doctoral candidacy. The successful defense of the doctoral proposal and admission to doctoral candidacy are expected by the end of the third year.

- **Credit units.** Students must have completed 42 units before filing the petition to advance to candidacy.
- **Forming the Doctoral Research Advisory Committee (RAC).** Students are encouraged to work with a variety of faculty while shaping their dissertation proposal. Prior to scheduling their dissertation proposal defense (Qualifying Exam) during their second year, students must formally assemble a Doctoral RAC in consultation with their advisor. This committee must consist of a minimum of three full-time tenured or tenure-track members of the Anthropology faculty who must approve the dissertation proposal defense (Qualifying Exam) and also sign the RAC Form and — along with the department chair — the Notice of Title, Scope, and Procedure of Dissertation. This committee typically forms the basis of the Dissertation Defense Committee.
- **Student-specific requirements for doctoral candidacy.** Prior to admission to candidacy, students may be asked by their committees to fulfill additional requirements that are directly relevant to their doctoral dissertation research. These

requirements may include a foreign language or specialized training outside of the anthropology department in areas such as statistics, computer programming, or laboratory techniques. Students will be formally notified by their advisor of such additional requirements.

- **Qualifying Exam.** All students must defend a doctoral proposal prior to admission to PhD candidacy. PhD proposal defenses should be carried out by December 15 of the student's third year. Proposals must be defended before the RAC.
- **Petition for admission to doctoral candidacy.** After a student's doctoral proposal has been successfully defended and after all other requirements set by the Office of Graduate Studies, Arts & Sciences; the Department of Anthropology; the subfield; and the student's committee have been met, the student and their advisor should submit a petition to the chair for advancement to candidacy. The chair will then inform the entire faculty and report the successful advancement to the Office of Graduate Studies, Arts & Sciences.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

The completion of the Qualifying Exam in the Anthropology is the successful defense of the dissertation proposal.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Concentration Requirements

In addition to the degree requirements outlined in the Universal Departmental Requirements for the PhD degree, students specializing in Archaeology have other requirements and deadlines to satisfy and guidelines to follow, as described below. The Archaeology faculty reserves the right to allow exceptions to any of the below rules in special cases.

Master's Degree Requirements for Archaeology

First-Year Mentoring Meeting

All students are required to meet with the Archaeology faculty by the end of the first year. All students must prepare and submit a detailed mentoring plan that lays out anticipated courses and the field or lab training necessary for the successful completion of years two and three. This document must be submitted two weeks in advance of the scheduled first-year meeting with the archaeology faculty.

Required Thesis or Research Paper

At the MA level, students must prepare and successfully defend either an MA thesis or an MA-level research paper (second-year paper) by the end of the fourth semester of academic residence. A defensible draft should be submitted by the first Monday after Spring Break.

The MA thesis or MA research paper demonstrates the student's ability to identify a problem and select an appropriate research strategy as well as to present the results in a professional manner. A final file copy of the MA paper or thesis must be submitted by the deadlines and in the format specified by the Office of Graduate Studies, Arts & Sciences, and the department before the archaeology staff can recommend granting the MA degree.

Requirements for Advancement to PhD Candidacy in Archaeology

Items 1 through 5 below must be completed before the student's committee and the department can recommend to the Office of Graduate Studies, Arts & Sciences, that the student advance to PhD candidacy.

1. *Required Course:* The student must complete ANTHRO 5053 Theoretical Approaches in Archaeology.
2. *Diverse Training:* The student must complete courses with at least four different Department of Archaeology faculty members to cover a range of theoretical skills and laboratory specializations.
3. *Second-Year Mentoring Meeting:* The student is required to have a mentoring meeting no later than the end of the second year of study. This meeting will usually coincide with the second-year paper/MA defense. The purpose of this meeting is to review the student's progress and to update the mentoring plan submitted during the first year.
4. *Third-Year Mentoring Meeting:* The student is required to have a mentoring meeting no later than the end of the third year of study. This meeting will usually coincide with the dissertation proposal defense. The purpose of this meeting is to review the student's progress and to update the mentoring plan submitted during the first year and revised during the second year.
5. *Dissertation Proposal:* The student must successfully defend a dissertation proposal before a faculty committee consisting of the faculty advisor and at least two other permanent members of the anthropology faculty. It is expected that this will be accomplished by the fifth semester and no later than the sixth semester in residence. The dissertation proposal ordinarily will be in the form of an appropriate research/dissertation improvement grant proposal prepared for submission to the National Science Foundation, the National Endowment for the Humanities, the Wenner-Gren Foundation, or another external funding agency. The student should consult with their faculty advisors at the start of the third year about the format of the proposal.

Post-Candidacy Requirements

1. *Fieldwork Write-Up Outline:* Within 60 days after the final field season, a detailed outline of the dissertation must be provided to the student's Research Advisory Committee (Doctoral Committee).
2. *Post-Fieldwork Meetings:* The student must meet with their dissertation committee every semester. *Scheduling semester meetings with the candidate's committee is the responsibility of the candidate.*

Please consult the Graduate Student Handbook (PDF) for more information regarding specific requirements for each concentration.

Master's Degree Along the Way/ In Lieu of a PhD

The Department of Anthropology does not offer a standalone master's degree, but completion of the master's degree along the way to the PhD is a required step in the process of earning the PhD. The Department of Anthropology requires 42 credit units for the award of an MA degree without a thesis. If a student fails to maintain satisfactory progress toward the completion of the PhD, they may withdraw from the PhD program with a master's degree in lieu of a PhD if all aforementioned requirements for the MA have been met.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching is a central part of graduate training, and this intellectual development is important for those seeking careers as academics or citizen scholars. The Department of Anthropology maintains a program of Mentored Teaching Experiences (MTEs) as well as other professional development opportunities for graduate students in our academic programs. These experiences represent a collaborative mentoring process between graduate students and faculty members to reflect

on and interpret disciplinary knowledge; to find multiple ways to represent disciplinary content; to adapt content to students' abilities and prior knowledge; and to develop methods to assess and improve the teaching and learning process in the discipline.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

All graduate students in Anthropology are required to attend the Center for Teaching and Learning's workshop for students preparing to have their first MTE. The department will also require students to take at least two of the following courses (or equivalents, as approved by the chair of the department) through the Center for Teaching and Learning prior to their second year of MTE participation:

- How to Build a Clear Map to Your Course
- Planning and Organizing a Class Session
- Constructing Effective Collaborative Learning Opportunities
- Teaching a Laboratory Class
- Motivating Student Learners
- Crickets in the Classroom: Quick Tips for Jump-Starting Conversation When Participation Lags
- Who's in Charge? Negotiating Your Role and Establishing Authority in the Classroom

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Given the role of the AI, courses will carry either 10 or 15 MER units per engagement.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students who wish to participate in an MIT (20 MER units) must have completed 40 MTE units and be approved by program faculty to teach independently.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

The MPE in Anthropology should offer a way for the student to develop new skills and knowledge bases. As such, MPEs cannot be related to the student's dissertation data collection. Learning analytical skills that relate to the analyses needed for the dissertation may be permitted, but dissertation data analyses must be completed outside of MPE hours.

The scope of the MPE will be determined in conversation among student, external mentor, dissertation supervisor, and Director of Graduate Studies. Prior to the start of the semester in which the MPE occurs, the student and external mentor will submit a Mentorship Registration Request. During the course of the semester, the mentor and mentee should meet frequently (weekly or biweekly) to track the progress of the student's work. At the end of the MPE, the student and mentor will provide an assessment for the overall learning experience.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.



- 60 to 75 MER units (20 of which can be MIT or an MPE) completed via one of these 12 pathways
- Preparatory Engagement completed prior to the second year of the program

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #2

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take one time

Pathway #3

ASGS 8010	Take one time
ASGS 8015	Take four times

Pathway #4

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #5

ASGS 8010	Take two times
ASGS 8015	Take three times

Pathway #6

ASGS 8015	Take four times

Pathway #7

ASGS 8015	Take three times
ASGS 8020	Take one time

Pathway #8

ASGS 8015	Take two times
ASGS 8020	Take two times

Pathway #9

ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #10

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8120	Take one time

Pathway #11

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8120	Take one time

Pathway #12

ASGS 8015	Take three times
ASGS 8120	Take one time

Anthropology, PhD, Biological Anthropology Concentration

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required: 42**
- **Degree Length:** Up to five years
 - Students are expected to complete the degree within five years (10 semesters).
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B–

Universal Departmental Requirements

The following is an abbreviated list of requirements that apply to all concentrations of the PhD in Anthropology. Each concentration also has its own additional guidelines and requirements. A more comprehensive description of the requirements (including additional requirements for each of the three concentrations: archaeology, biological anthropology, and sociocultural anthropology) can be found in the Graduate Student Handbook (PDF). All students in the PhD program are expected to satisfy the academic performance requirements of the Office of Graduate Studies, Arts & Sciences, which can be found in the General Requirements (p. 42) section of this *Bulletin*. Similarly, all concentration requirements are in addition to those set out here for the department as a whole.

Degree Length and Course Units

Students are expected to complete the degree within five years. All students must complete a minimum of 42 units of graduate-level coursework for the PhD. A typical semester course load for the first year of study is 12 units. The semester course load for the second year is typically 9 units. After 42 units have been completed, students will work with their advisors to identify the appropriate registration options to maintain full-time status.

Master's Degree

The department does not admit students for a standalone master's degree; completion of the MA degree along the way to the PhD is a required step in the process of earning the PhD.

Students are expected to receive their MA degree by the end of their second year or fourth semester of full-time study.

The universal requirements for the MA in Anthropology are as follows, although each concentration has additional requirements, such as a second-year paper, project, or portfolio:

- **Theory requirement.** All students are required to take ANTHRO 5473 Social Theory and Anthropology during their first year. Under special circumstances, this requirement may be delayed or waived by petitioning the departmental faculty. This request should be initiated through the student's advisor.
- **One subfield course requirement.** Graduate students earning a PhD in Anthropology are expected to have familiarity across the subfields of anthropology. To this end, all students must complete at least one course taught by a faculty member in the anthropology department in one subfield other than their own. Courses taken in other concentrations should strengthen the student's understanding of the subfield, complement their research, and, ideally, enhance their ability to teach across subfields. Students with good cause to substitute prior extensive coursework in the subfield — especially in the context of a master's degree from another university — for the other subfield requirement may petition the relevant subfield faculty to do so.
- **Credit units.** The Department of Anthropology requires 42 credit units for the award of an MA degree without a thesis.
- **Petition for the award of the master's degree.** Once a student has completed all requirements for the MA degree, the student and their advisor submit a petition to the chair. The chair circulates the petition to the entire faculty and reports the successful completion of requirements to the Office of Graduate Studies, Arts & Sciences.

Doctoral Candidacy

Although the Department of Anthropology only accepts students who wish to pursue the PhD, students are not officially admitted to candidacy for the PhD immediately upon entry into the program. Admittance to candidacy for the PhD program requires the successful completion of the requirements of the MA degree as well as of the requirements listed below. Continuation for the PhD requires that the student be advanced to doctoral candidacy. The successful defense of the doctoral proposal and admission to doctoral candidacy are expected by the end of the third year.

- **Credit units.** Students must have completed 42 units before filing the petition to advance to candidacy.
- **Forming the Doctoral Research Advisory Committee (RAC).** Students are encouraged to work with a variety of faculty while shaping their dissertation proposal. Prior to scheduling their dissertation proposal defense (Qualifying Exam) during their second year, students must formally assemble a Doctoral RAC in consultation with their advisor. This committee must consist of a minimum of three full-time tenured or tenure-track members of the Anthropology faculty who must approve the dissertation proposal defense (Qualifying Exam) and also sign the RAC Form and — along with the department chair — the Notice of Title, Scope, and Procedure of Dissertation. This committee typically forms the basis of the Dissertation Defense Committee.
- **Student-specific requirements for doctoral candidacy.** Prior to admission to candidacy, students may be asked by their committees to fulfill additional requirements that are directly relevant to their doctoral dissertation research. These



requirements may include a foreign language or specialized training outside of the anthropology department in areas such as statistics, computer programming, or laboratory techniques. Students will be formally notified by their advisor of such additional requirements.

- **Qualifying Exam.** All students must defend a doctoral proposal prior to admission to PhD candidacy. PhD proposal defenses should be carried out by December 15 of the student's third year. Proposals must be defended before the RAC.
- **Petition for admission to doctoral candidacy.** After a student's doctoral proposal has been successfully defended and after all other requirements set by the Office of Graduate Studies, Arts & Sciences; the Department of Anthropology; the subfield; and the student's committee have been met, the student and their advisor should submit a petition to the chair for advancement to candidacy. The chair will then inform the entire faculty and report the successful advancement to the Office of Graduate Studies, Arts & Sciences.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

The completion of the Qualifying Exam in the Anthropology is the successful defense of the dissertation proposal.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Concentration Requirements

In addition to the degree requirements outlined in the Universal Departmental Requirements for the PhD degree, students specializing in Biological Anthropology have other requirements and deadlines to satisfy and guidelines to follow, as described below. The Biological Anthropology faculty reserves the right to allow exceptions to any of the below rules in special cases.

Master's Degree Requirements for Biological Anthropology

First-Year Mentoring Meeting

All students are required to meet with the full Biological Anthropology faculty at the end of the first year (second semester) to present and discuss previous and planned coursework, progress on developing their research ideas, summer plans, any completed research projects or research presentations, any other professional/academic activities, and progress toward the dissertation proposal.

Committee

With the advice of the faculty advisor, the student is expected to have formed a doctoral research advisory committee consisting of three Anthropology faculty members (an external committee member may be substituted for an Anthropology faculty member if approved by the Biological Anthropology faculty) prior to the end of the first semester of the second year (third semester). The faculty welcomes co-advising and encourages students to utilize research opportunities and resources from different faculty based on projects and faculty expertise.

Research Prospectus

A research prospectus will be submitted to the student's committee by the end of the first semester of the second year (third semester). The prospectus should outline the key background, hypotheses, and planned methods that will be incorporated into the dissertation proposal. For the student to remain in good standing, the prospectus must be accepted by the committee (including revisions, as needed) prior to the onset of the fourth semester, at which time the student will be notified in writing of prospectus approval. If the prospectus is not accepted by the committee, then the student will be placed on probation.

Requirements for Advancement to PhD Candidacy in Biological Anthropology

Items 1 through 4 below must be completed before the student's committee and the department can recommend to the Office of Graduate Studies, Arts & Sciences, that the student advance to PhD candidacy.

1. **Requirements:** The student must complete the requirements for the MA as described above, including 42 units of coursework, the completion of the first-year reviews, and the approval of the research prospectus by their committee.
2. **Second-Year Mentoring Meeting:** The student is required to have a mentoring meeting no later than the end of the second year of study. This meeting will usually coincide with the dissertation proposal defense. The purpose of this meeting is to review the student's progress and to update the mentoring plan submitted during the first year.
3. **Dissertation Proposal:** The student must defend their dissertation proposal to their doctoral committee by the end of the fourth semester (second semester of the second year). Advancement to PhD candidacy will be given upon formal acceptance of a written research proposal and an oral defense of that proposal before the doctoral research advisory committee. The research proposal will be written in the form of a grant proposal to a funding agency (the specific funding agency to use as a model will be determined in consultation with the committee). Students who fail to successfully defend their dissertation proposal by the end of the fourth semester will be placed on probation during the fifth semester (first semester of the third year).
4. **External Funding:** After the successful defense of the dissertation proposal, the student should submit their dissertation grant proposal — as well as any other grant proposals deemed appropriate by the dissertation research advisory committee — at the first available opportunity. These may include (but are not limited to) the Fulbright Program, the Leakey Foundation, the National Science Foundation, and the Wenner-Gren Foundation.

It is generally recommended (but not required) that students who do not receive funding during the first submission utilize all opportunities to resubmit revised grants; opportunities will vary by granting agency.

Post-Candidacy Requirements

1. **Post-Fieldwork Meetings:** The student must meet with their dissertation committee every semester. *Scheduling semester meetings with the candidate's committee is the responsibility of the candidate.*

Deadlines and Time Frames for Submission of Hard-Copy Drafts for PhD Dissertations

A printed copy of the dissertation draft must be submitted a minimum of one month in advance of the defense during the academic term (either the fall or spring semester). A doctoral dissertation must demonstrate the student's ability to make a scholarly contribution in the discipline and to handle theoretical issues. It must conform to the directives of the department and to the regulations of the Office of Graduate Studies, Arts & Sciences. Dissertation defense guidelines require an external reviewer (i.e., from outside of the Department of Anthropology) on the dissertation committee. Faculty in Neuroscience and Anatomy are, as of 2023, considered external committee members.

The internal members of the dissertation committee (i.e., from within the Department of Anthropology) are required to review the dissertation draft and to certify to the Office of Graduate Studies, Arts & Sciences, that it is "ready to come to defense" before it is distributed to an external reviewer. Internal departmental committee members must have two weeks to read and review the dissertation draft to reach the decision of whether to certify the document as being "ready to come to defense." The external reviewer must also receive the dissertation draft at least one month before the dissertation defense.

After certification by internal members of the dissertation committee that the document is "ready to come to defense," the student will provide draft copies to the external reviewers and submit the requisite forms and materials to the Director of Graduate Studies and the Academic Coordinator, who will schedule the defense with the Office of Graduate Studies, Arts & Sciences. The minimum total elapsed time to secure a defense date is one month: two weeks as required for internal departmental review, plus 15 more days as required by the Office of Graduate Studies, Arts & Sciences.

Guidelines for Oral Defenses

At the beginning of an oral defense of a research proposal, an MA thesis or paper, or a PhD dissertation, the student should provide a short oral synopsis of the research, the length of which will vary with the document coming to defense. Such a synopsis should include the following:

- A short resume of the problem, including a description of how and why the student selected the problem
- A discussion of data collection methods
- A summary of the analytical techniques employed
- A short recap of the results of the research
- A case for the significance of the research

For a research proposal defense, all the above topics except results should be addressed. The oral defense of the doctoral dissertation will consist of the following:

1. A formal presentation to the department and the university community (at which the committee will be present)
2. A question session by the whole audience
3. A closed session for the candidate and committee
4. An executive session of the dissertation research advisory committee.

Please consult the Graduate Student Handbook (PDF) for more information regarding specific requirements for each concentration.

Master's Degree Along the Way/ In Lieu of a PhD

The Department of Anthropology does not offer a standalone master's degree, but completion of the master's degree along the way to the PhD is a required step in the process of earning the PhD. The Department of Anthropology requires 42 credit units for the award of an MA degree without a thesis. If a student fails to maintain satisfactory progress toward the completion of the PhD, they may withdraw from the PhD program with a master's degree in lieu of a PhD if all aforementioned requirements for the MA have been met.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching is a central part of graduate training, and this intellectual development is important for those seeking careers as academics or citizen scholars. The Department of Anthropology maintains a program of Mentored Teaching Experiences (MTEs) as well as other professional development opportunities for graduate students in our academic programs. These experiences represent a collaborative mentoring process between graduate students and faculty members to reflect on and interpret disciplinary knowledge; to find multiple ways to represent disciplinary content; to adapt content to students' abilities and prior knowledge; and to develop methods to assess and improve the teaching and learning process in the discipline.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

All graduate students in Anthropology are required to attend the Center for Teaching and Learning's workshop for students preparing to have their first MTE. The department will also require students to take at least two of the following courses (or equivalents, as approved by the chair of the department) through the Center for Teaching and Learning prior to their second year of MTE participation:

- How to Build a Clear Map to Your Course
- Planning and Organizing a Class Session
- Constructing Effective Collaborative Learning Opportunities
- Teaching a Laboratory Class
- Motivating Student Learners
- Crickets in the Classroom: Quick Tips for Jump-Starting Conversation When Participation Lags
- Who's in Charge? Negotiating Your Role and Establishing Authority in the Classroom

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete

a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Given the role of the AI, courses will carry either 10 or 15 MER units per engagement.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students who wish to participate in an MIT (20 MER units) must have completed 40 MTE units and be approved by program faculty to teach independently.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

The MPE in Anthropology should offer a way for the student to develop new skills and knowledge bases. As such, MPEs cannot be related to the student's dissertation data collection. Learning analytical skills that relate to the analyses needed for the dissertation may be permitted, but dissertation data analyses must be completed outside of MPE hours.

The scope of the MPE will be determined in conversation among student, external mentor, dissertation supervisor, and Director of Graduate Studies. Prior to the start of the semester in which the MPE occurs, the student and external mentor will submit a Mentorship Registration Request. During the course of the semester, the mentor and mentee should meet frequently (weekly or biweekly) to track the progress of the student's work. At the end of the MPE, the student and mentor will provide an assessment for the overall learning experience.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- 60 to 75 MER units (20 of which can be MIT or an MPE) completed via one of these 12 pathways
- Preparatory Engagement completed prior to the second year of the program

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #2

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take one time

Pathway #3

ASGS 8010	Take one time
ASGS 8015	Take four times

Pathway #4

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #5

ASGS 8010	Take two times
ASGS 8015	Take three times

Pathway #6

ASGS 8015	Take four times

Pathway #7

ASGS 8015	Take three times
ASGS 8020	Take one time

Pathway #8

ASGS 8015	Take two times
ASGS 8020	Take two times

Pathway #9

ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #10

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8120	Take one time

Pathway #11

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8120	Take one time

Pathway #12

ASGS 8015	Take three times
ASGS 8120	Take one time

Anthropology, PhD, Sociocultural Anthropology Concentration

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

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- **Total Units Required: 42**
- **Degree Length:** Up to five years
 - Students are expected to complete the degree within five years (10 semesters).
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B–

Universal Departmental Requirements

The following is an abbreviated list of requirements that apply to all concentrations of the PhD in Anthropology. Each concentration also has its own additional guidelines and requirements. A more comprehensive description of the requirements (including additional requirements for each of the three concentrations: archaeology, biological anthropology, and sociocultural anthropology) can be found in the Graduate Student Handbook (PDF). All students in the PhD program are expected to satisfy the academic performance requirements of the Office of Graduate Studies, Arts & Sciences, which can be found in the General Requirements (p. 42) section of this *Bulletin*. Similarly, all concentration requirements are in addition to those set out here for the department as a whole.

Degree Length and Course Units

Students are expected to complete the degree within five years. All students must complete a minimum of 42 units of graduate-level coursework for the PhD. A typical semester course load for the first year of study is 12 units. The semester course load for the second year is typically 9 units. After 42 units have been completed, students will work with their advisors to identify the appropriate registration options to maintain full-time status.

Master's Degree

The department does not admit students for a standalone master's degree; completion of the MA degree along the way to the PhD is a required step in the process of earning the PhD.

Students are expected to receive their MA degree by the end of their second year or fourth semester of full-time study.

The universal requirements for the MA in Anthropology are as follows, although each concentration has additional requirements, such as a second-year paper, project, or portfolio:

- *Theory requirement.* All students are required to take ANTHRO 5473 Social Theory and Anthropology during their first year. Under special circumstances, this requirement may be delayed or waived by petitioning the departmental faculty. This request should be initiated through the student's advisor.
- *One subfield course requirement.* Graduate students earning a PhD in Anthropology are expected to have familiarity across the subfields of anthropology. To this end, all students must complete at least one course taught by a faculty member in the anthropology department in one subfield other than their own. Courses taken in other concentrations should strengthen the student's understanding of the subfield, complement their research, and, ideally, enhance their ability to teach across subfields. Students with good cause to substitute prior extensive coursework in the subfield — especially in the context of a master's degree from another university — for the other subfield requirement may petition the relevant subfield faculty to do so.
- *Credit units.* The Department of Anthropology requires 42 credit units for the award of an MA degree without a thesis.
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requirements may include a foreign language or specialized training outside of the anthropology department in areas such as statistics, computer programming, or laboratory techniques. Students will be formally notified by their advisor of such additional requirements.

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The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Concentration Requirements

Master's Degree Requirements for Sociocultural Anthropology

First-Year Mentoring Meeting

During the first semester of the first year, students should meet with their Sociocultural Anthropology advisor to go over the mentoring agreement and expectations document. The student and advisor should also prepare a mentoring plan that specifies anticipated courses, language or other training, and preliminary fieldwork for the successful completion of years one and two. By the end of the first year, the student should have formed a committee (the advisor and at least two other faculty members) to plan and advise on the second-year paper.

Required Coursework

In addition to ANTHRO 5473 Social Theory and Anthropology, students must complete the following courses:

Code	Title	Units
ANTHRO 5010	Seminar: Research Methods in Cultural Anthropology	3
ANTHRO 5124	Argumentation Through Ethnography	3

Second-Year Paper

The student will complete a second-year paper. Section topics and readings are to be worked out with committee members. During the second year, the committee and the student will meet to discuss the work and provide constructive critique before a final draft is completed. In cases of unsatisfactory progress, the department will adhere to Office of Graduate Studies, Arts & Sciences, guidelines on academic standing and probation.

Requirements for Advancement to PhD Candidacy in Sociocultural Anthropology

Items 1 through 3 below must be completed before the student's committee and the department can recommend to the Office of Graduate Studies, Arts & Sciences, that the student advances to PhD candidacy.

1. *Required Courses:* The student must complete the required courses listed above.
2. *Second-Year Paper:* The student must complete the second-year paper no later than the end of the second year of study.
3. *Doctoral Proposal and Hearing:* The student is required to complete and receive approval of a doctoral proposal in the form of one of the major external grant proposals (e.g., the National Science Foundation, the Wenner-Gren Foundation). Students should consult with their faculty advisors at the start of the fourth semester about the format of the proposal. Ideally within the fourth semester (but definitely by the end of the fifth semester), the student should hold a proposal hearing before a faculty committee consisting of the faculty advisor and at least two other permanent members of the Anthropology faculty.

Post-Candidacy Requirements

1. *Fieldwork Write-Up Outline:* Within 60 days after the final field research season, a detailed outline of the dissertation must be provided to the student's Research Advisory Committee (Doctoral Committee).
2. *Post-Fieldwork Meetings:* The student must meet with their dissertation committee every semester. *Scheduling semester meetings with the candidate's committee is the responsibility of the candidate.*

Please consult the Graduate Student Handbook (PDF) for more information regarding specific requirements for each concentration.

Master's Degree Along the Way/ In Lieu of a PhD

The Department of Anthropology does not offer a standalone master's degree, but completion of the master's degree along the way to the PhD is a required step in the process of earning the PhD. The Department of Anthropology requires 42 credit units for the award of an MA degree without a thesis. If a student fails to maintain satisfactory progress toward the completion of the PhD, they may withdraw from the PhD program with a master's degree in lieu of a PhD if all aforementioned requirements for the MA have been met.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching is a central part of graduate training, and this intellectual development is important for those seeking careers as academics or citizen scholars. The Department of Anthropology maintains a program of Mentored Teaching Experiences (MTEs) as well as other professional development opportunities for graduate students in our academic programs. These experiences represent a collaborative mentoring process between graduate students and faculty members to reflect on and interpret disciplinary knowledge; to find multiple ways to represent disciplinary content; to adapt content to students' abilities and prior knowledge; and to develop methods to assess and improve the teaching and learning process in the discipline.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

All graduate students in Anthropology are required to attend the Center for Teaching and Learning's workshop for students preparing to have their first MTE. The department will also require students to take at least two of the following courses (or equivalents, as approved by the chair of the department) through the Center for Teaching and Learning prior to their second year of MTE participation:

- How to Build a Clear Map to Your Course
- Planning and Organizing a Class Session
- Constructing Effective Collaborative Learning Opportunities
- Teaching a Laboratory Class
- Motivating Student Learners
- Crickets in the Classroom: Quick Tips for Jump-Starting Conversation When Participation Lags
- Who's in Charge? Negotiating Your Role and Establishing Authority in the Classroom

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Given the role of the AI, courses will carry either 10 or 15 MER units per engagement.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students who wish to participate in an MIT (20 MER units) must have completed 40 MTE units and be approved by program faculty to teach independently.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

The MPE in Anthropology should offer a way for the student to develop new skills and knowledge bases. As such, MPEs cannot be related to the student's dissertation data collection. Learning analytical skills that relate to the analyses needed for the dissertation may be permitted, but dissertation data analyses must be completed outside of MPE hours.

The scope of the MPE will be determined in conversation among student, external mentor, dissertation supervisor, and Director of Graduate Studies. Prior to the start of the semester in which the MPE occurs, the student and external mentor will submit a Mentorship Registration Request. During the course of the semester, the mentor and mentee should meet frequently (weekly or biweekly) to track the progress of the student's work. At the end of the MPE, the student and mentor will provide an assessment for the overall learning experience.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- 60 to 75 MER units (20 of which can be MIT or an MPE) completed via one of these 12 pathways
- Preparatory Engagement completed prior to the second year of the program

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #2

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take one time

Pathway #3

ASGS 8010	Take one time
ASGS 8015	Take four times

Pathway #4

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #5

ASGS 8010	Take two times
ASGS 8015	Take three times

Pathway #6

ASGS 8015	Take four times

Pathway #7

ASGS 8015	Take three times
ASGS 8020	Take one time

Pathway #8

ASGS 8015	Take two times
ASGS 8020	Take two times

Pathway #9

ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #10

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8120	Take one time

Pathway #11

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8120	Take one time

Pathway #12

ASGS 8015	Take three times
ASGS 8120	Take one time

Art History and Archaeology

The Department of Art History and Archaeology offers the degrees of **Master of Arts (MA)** and **Doctor of Philosophy (PhD)**. Particular areas of strength include ancient art, European art of the Renaissance and early modern periods, Asian art, and modern and contemporary art of Europe and the Americas. The size of our graduate program ensures that our students receive an exceptional level of advising and mentoring. Every student has a faculty advisor, and the research of PhD students is supervised by a Research Advisory Committee (RAC) made up of a core group of three members of the faculty. As part of their professional preparation, PhD students gain teaching experience within the department or in other programs either as a Mentored Teaching Experience (MTE) or as instructors of record.

Our faculty prepares students to acquire skills in empirical and theoretical methods in art history; museum, archival and site research; visual and textual analysis; and descriptive and analytic writing. Students also take advantage of curatorial or research internships at the university's Kemper Art Museum, the Saint Louis Art Museum, and other local institutions as well as art museums outside the region. The department supports students' professional development and research projects through funded field trips to major art centers and financial subvention of travel for research and presentation of conference papers. Such education and support prepares our students for a variety of professional opportunities at the highest level.

Students with a PhD from the department pursue a diverse array of career paths, including teaching appointments at colleges and universities; positions as curators, registrars, and educators in art museums; jobs in university administration; and jobs with auction houses, arts publications and art dealers. Students with the MA degree from the department have pursued doctoral studies at Washington University or in other PhD programs; they have also taken a variety of positions in museum curation and education, arts journalism, art libraries, art advising, and commercial art galleries.

Phone: 314-935-5270

Website: <https://arthistory.wustl.edu/>

Faculty

Chair

John Klein
Professor
PhD, Columbia University

Director of Graduate Studies

John Klein
Professor
PhD, Columbia University

Nathaniel Jones
Director of Undergraduate Studies
Associate Professor
PhD, Yale University

Associate Director of Graduate Studies

Tomos Evans
Assistant Professor
PhD, College of William & Mary

Director of Undergraduate Studies

Nathaniel Jones
Director of Undergraduate Studies
Associate Professor
PhD, Yale University

Department Faculty

Nicola Aravecchia
Associate Professor
PhD, University of Minnesota

Elizabeth C. Childs
Etta and Mark Steinberg Professor of Art History
PhD, Columbia University

Esther Gabel
Lecturer
PhD, University of Cambridge

Kristina Kleutghen
David W. Mesker Associate Professor
PhD, Harvard University

Ila Sheren
Associate Professor
PhD, Massachusetts Institute of Technology

William E. Wallace
Barbara Murphy Bryant Distinguished Professor of Art History
PhD, Columbia University

Affiliated Faculty

Rebecca Messbarger

Professor of Italian; History; and Women, Gender and Sexuality
Studies
PhD, University of Chicago

Eric Mumford

Rebecca and John Voyles Professor of Architecture
PhD, Princeton University

Sarah Weston

Assistant Professor of English
PhD, Yale University

Emeritus Faculty

David Freidel

Professor Emeritus of Archaeology, Department of Anthropology
PhD, Harvard University

Angela Miller

Professor Emerita
PhD, Yale University

Susan Rotroff

Jarvis Thurston & Mona Van Duyn Professor Emerita
PhD, Princeton University

Sarantis Symeonoglou

Professor Emeritus
PhD, Columbia University

Affiliated Directors and Curators, Mildred Lane Kemper Art Museum, Washington University

Sabine Eckmann

Director and Chief Curator
PhD, University of Erlangen–Nürnberg

Meredith Malone

Curator
PhD, University of Pennsylvania

Dana Ostrander

Assistant Curator
PhD, University of Illinois Urbana-Champaign

Affiliated Curators, Saint Louis Art Museum

Nichole Bridges

PhD, University of Wisconsin–Madison

David Conradsen

MA, University of Delaware

Philip Hu

MA, Institute of Fine Arts, New York University

Simon Kelly

PhD, University of Oxford

Clare Kobasa

PhD, Columbia University

Eric Lutz

PhD, University of California, Santa Barbara

Judith Mann

PhD, Washington University in St. Louis

Alexander Brier Marr

PhD, University of Rochester

Amy Torbert

PhD, University of Delaware

Melissa Venator

PhD, Rice University

Melissa Wolfe

PhD, Ohio State University

Affiliated Directors and Curators, Pulitzer Arts Foundation

Cara Starke

Director
MA, Williams College

Stephanie Weissberg

Curator
MA, New York University

Degree Requirements

- Art History and Archaeology, MA (p. 110)
- Art History and Archaeology, PhD (p. 111)

Courses

ARTARCH 5000 Topics in Art History: Rethinking Matisse

Prereqs: L01 113, L01 215; one 300-level course in Art History preferred; or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH BU: HUM EN: H

ARTARCH 5002 Graduate Seminar: Methods in Art History

The purpose of this seminar is to introduce graduate students to some of the most important methodological approaches to the study of works of art. Students will acquire an enhanced understanding of these methods in historical terms as well as insight into how such

methods can be applied in the research questions posed by art historians today. The course may include guest presentations by a range of faculty in the department. Prerequisite: Graduate standing in Art History and Archaeology.

Credit 3 units.

Typical periods offered: Fall

ARTARCH 5004 Graduate Internship in the St. Louis Art Community

Graduate students will work on advanced research projects under the joint supervision of a curator at the Saint Louis Art Museum or the Mildred Lane Kemper Art Museum and a Washington University faculty member. Prior agreement on a research project and internship duties required.

Credit 3 units.

Typical periods offered: Fall, Spring

ARTARCH 5005 Writing Intensive Topics: The Age of Augustus:**Ancient Rome From Republic to Empire**

TBD

Credit 3 units. A&S IQ: HUM, LCD, WI Arch: HUM Art: AH, HUM BU:

HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5013 The Digital Art Historian

Within the digital humanities, it has often been asserted that art history lags behind other disciplines when it comes to technology adoption. But in fact, art historians are among the earliest adopters of technologically mediated academic practices, though the breadth of methodologies utilized within the digital humanities are not always suitable to or capable of fully accommodating the added layer of visual culture intrinsic to art history. While this course will explore all of the significant facets of the digital humanities and how they can be adapted to art history, it also more broadly aims to create technologically astute and nimble students and future professionals capable of "learning to learn" technologies as they emerge; determining when and how a technology may be useful in research, scholarship, instruction, and other professional work; assessing both data and the tools that represent it with a critical mind; and understanding how to effectively apply technology in a broad range of academic and professional contexts.

Credit 1 unit. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

Typical periods offered: Spring

ARTARCH 5021 Internship in the Art Community

Prerequisites: a major or minor in art history, permission of the undergraduate adviser requested in advance, and a letter from the sponsoring institution stating the nature of the internship.

Credit 3 units.

ARTARCH 5027 Modern War in Art

Art and war have always been intertwined, whether in glory or revulsion. But modern art and modern war are qualitatively different from their counterparts in the past in ways that ensured that their relationship would become more problematic and oppositional. The challenge of finding new artistic languages to express the new conditions of mechanized combat led many artists to explore abstraction, fragmentation, absurdity or arbitrariness to convey the energy, impersonality and nihilism of modern war. When the British soldier and poet Wilfred Owen (1893-1918) wrote of the human devastation of World War I as obscene as cancer, bitter as the cud, he strained for metaphoric language appropriate to its magnitude.

We will consider the same challenge to visual artists throughout the modern period. Prerequisites: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215); one 300-level course in Art History preferred; or permission of instructor.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

Typical periods offered: Fall, Spring

ARTARCH 5080 Archaeology of Roman Slavery

Slavery was a fundamental part of the ancient Roman world. In this course, we will survey various ways in which the institution of slavery played a critical role in shaping Roman society. Through an exploration of social, economic, legal, and cultural aspects of Roman slavery, we will pose questions of what it means to be a slave society, how the ubiquity of forced labor impacted the lives of ancient Romans, and the extent to which we can recover the experiences and subjectivities of enslaved people. Throughout the course, we will confront the interpretive problems posed by biased and/or scarce evidence and by assumptions we may carry as the inheritors of modern slaveries. A recurring theme we will explore is the extent to which evidence of slavery and the material traces of enslaved people's lives are visible in the archaeological record. At the end of the term, we will contextualize Roman slavery by comparing it with modern examples and by considering the legacy of ancient slavery in modern visual culture and representations of enslaved people. Prerequisites: Any 100- or 200-level course in art history or archaeology; or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5105 Greek and Roman Painting

This course provides a survey of the major achievements of ancient Greek and Roman painting, broadly understood and encompassing wall painting, panel painting, painted pottery, and mosaic. We will study monuments ranging over a millennium in time and located throughout the ancient Mediterranean. Particular attention will be paid to the social, political, and religious aspects of ancient Greco-Roman painting and to questions of innovation in artistic practice. Special emphasis will be placed on students' cultivation of the tools of art-historical analysis and of the presentation of that analysis in written form. Prerequisite: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215) or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM, SSC BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5160 Early Chinese Art: From Human Sacrifice to the Silk Road

How does ancient and medieval Chinese art inspire contemporary artists? This course examines Chinese art, architecture, and material culture from the prehistoric period through the end of the medieval Tang dynasty to demonstrate how the past continues to affect contemporary Chinese art and the art of its future. Topics covered include Neolithic ceramics and jades, the early bronzecasting tradition, the Terracotta Army and its predecessors, early brush arts and Buddhist sites, and the varied exotica of the Silk Road. Each class teaches early and contemporary works side by side to demonstrate how artists today continue to look to the past as they create the art of the future. Prerequisite: One course in Art History at the 100 or 200 level or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5170 Art of the Islamic World

This course surveys the art and architecture of societies in which Muslims were dominant or in which they formed significant minorities from the seventh through the 20th centuries. It examines the form and function of architecture and works of art as well as the social, historical, and cultural contexts; patterns of use; and evolving meanings attributed to art by the users. The course follows a chronological order, and selected visual materials are treated along chosen themes. Themes include the creation of a distinctive visual culture in the emerging Islamic polity; the development of urban institutions; key architectural types such as the mosque, madrasa, caravanserai, palace, and mausoleum; art objects and the art of the illustrated book; cultural interconnections along trade and pilgrimage routes; and Westernization and modernization in art and architecture. Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H UColl: CD

ARTARCH 5181 Modern & Contemporary Chinese Art

This course will explore the ways in which Chinese artists of the 19th, 20th, and 21st centuries have defined modernity and tradition against the complex background of China's history. By examining art works in different media along with other documentary materials, we will also engage with theoretical issues in art history, such as modernity, cultural politics, and government control of art.

Credit 3 units. A&S IQ: HUM, LCD Art: AH BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5213 Art and Archaeology of Cleopatra's Egypt

This course is an introduction to the art and archaeology of Egypt from its conquest by Alexander the Great (332 BCE) to the early fourth century CE. It will examine the rich and multi-faceted history and artistic legacy of Egypt under the Ptolemies and their last queen Cleopatra, followed by the Roman conquest under Emperor Augustus up to the flourishing of Egyptian Christianity. Students will become familiar with a wide range of ancient sources, including documentary and literary texts, coins, architecture, paintings and sculpture.

Prerequisites: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215), or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5230 The Reception of Egypt in the Graeco-Roman World

Ancient Greeks and Romans found Egypt to be an exceptionally enthralling world, in terms not only of its physical features but also of its people, monuments, and traditions. This course will explore how different views of Egypt emerged in the Graeco-Roman world; it will also investigate the possible reasons for the remarkable popularity and allure of Egypt and things Egyptian as reflected in the writings of Greek and Roman authors as well as in the art and architecture of the Mediterranean world in Classical antiquity. In this seminar, we will read primary literary sources (in translation) that focus on the reception of ancient Egypt and, more specifically, its history, religion, and customs. Several of these sources also offer a privileged viewpoint to investigate how the perception of notable Egyptian figures -- chiefly Cleopatra -- was shaped by Rome to suit a specific agenda. In addition to the written sources, we will look at the artistic and archaeological evidence that best showcases the impact of Egypt's legacy on Graeco-Roman traditions. The readings assigned for each class will also provide a broad sample of secondary sources, consisting of some of the most significant scholarship on the image of Egypt in Classical antiquity.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

ARTARCH 5236 Rome in Egypt: The Archaeology of an Oasis City

This seminar will focus on the results of the archaeological fieldwork carried out at Trimithis / Amheida, a Graeco-Roman city in Egypt's Western Desert. It will investigate the available documentary and archaeological evidence, including a wealthy house with paintings inspired by Classical themes, a public bath built in the Roman tradition, a rhetorical schoolroom, pyramid-shaped Roman tombs, remains of a temple, and one of the earliest churches discovered in Egypt so far. We will explore how this evidence compares with that from neighboring sites in Egypt's Western Desert as well as in the Nile Valley. The goal is to develop an appreciation and understanding of Romano-Egyptian architecture, Classical and late antique art in Egypt, and Egypt's religious, social, and cultural history. Students will also have the opportunity to familiarize themselves with notions of archaeological methods and practice, as adopted in the context of an Egyptian excavation project. Prerequisites: One course at the 100- or 200-level in Art History, Classics, or Archaeology recommended

Credit 3 units. A&S IQ: HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5237 Topics in Japanese Prints: The Floating World of Japanese Prints

The relationship between Japanese printmaking and popular culture from 1600 to 1900. Woodblock and copperplate printmaking techniques, key masters, kabuki drama, pleasure quarters, fiction, travel, modernization will be explored. Prerequisite: L01 111, Intro to Asian Art, or background in printmaking or Japanese culture.

Credit 3 units. A&S IQ: HUM, LCD Art: AH BU: HUM EN: H

Typical periods offered: Fall, Spring

ARTARCH 5260 The Town at the Center of the Universe: The Archaeology and Arts of Ilé-Ife, the West African City of Gods, in Global Perspective (c.1000 AD to the Present)

"Ife is as full of holy relics as Rome. Each grove and shrine is sacred to an orisha or demi-god, who is not merely the guardian and patron but the progenitor of a clan. For once upon a time the gods lived on earth, and there is no Yoruba who cannot trace his ancestry back to one of them... Not merely the Yoruba nation but the world itself came to birth at Ife." - Elspeth Huxley (1954: 207)

Viewed traditionally as the birthplace of humankind in Yorùbá cosmology, the Medieval West African city of Ilé-Ife, Nigeria, boasts an artistic record perhaps unparalleled in West and Central Africa. During its zenith in the 11th to 15th centuries AD, the city was likely the capital of a powerful, influential kingdom, and the heart of technologically and stylistically complex industries of brass, copper, terracotta, glass, stone, and ceramic art which profoundly influenced the history of the region. Considered in the present as a sacred center, traditions hold Ife to be the source of a number of West African dynasties, and the monarchs, priests, and people of several later West African kingdoms held it in deep reverence, such as the kingdoms of Dahomey, Benin, and Oyó. Today, Ife is considered the spiritual core of a world religion: the reverence of the *drisà* - the powerful deities of southern Nigeria, now also worshipped as far as Brazil, Cuba, Trinidad, and New York under new manifestations in diasporic religions such as Candomblé, Santería, and Orisha. Despite the kingdom's incredible artistic record, the prominence of it and its king (the Ooni) as a sort of Rome or Vatican City of West Africa, and its central role in global spirituality, its history remains mysterious. In the face of a general lack of early written accounts and often conflicting oral traditions, the archaeology and arts of Ife come to the fore as crucial sources of evidence that sheds light on the city's illustrious past, the nature of its society, and the technological expertise, artistic talent, and aesthetic values of its early inhabitants.

Credit 3 units.

Typical periods offered: Spring

ARTARCH 5280 Pilgrimage and the Medieval City

In this course we will explore one of the primary ways people traversed Europe and beyond: pilgrimage. Specifically, this course will explore the material culture of pilgrimage in the context of the urban environment, considering the role of art in guiding, encouraging, and visualizing pilgrimage to and through some of the important religious centers in the medieval Christian world. We will begin in Jerusalem and move outwards to Constantinople as a gateway to holy sites across the Byzantine Empire. We will then move to Paris and London to explore the different ways that pilgrimage could be undertaken, both physically and in the mind's eye. Finally, we will move to the conceptual, considering how the Heavenly Jerusalem was manifested in art and architecture across the medieval world. This course will investigate this subject through engagement with primary sources, object-focused study, and visits to the Saint Louis Art Museum. The overarching goal is to foster strong critical reading and thinking skills, while also developing specialized knowledge in the history of medieval art. Emphasis will lie in critical interpretation and analysis, in engaging in rigorous class discussion, and in writing coherently at a high academic level. Prerequisite: any 100- or 200-level course in art history

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5292 Art and Death in Ancient Rome

Perhaps more than any other phenomenon, death spurred the creation of art in the ancient Roman world. The practice of materially commemorating the deceased -- of perpetuating the memory of the dead through the creation of funerary monuments designed to appeal to both intimate familial relations and the public at large -- stretched across Roman social boundaries and endured for many centuries. But death also frequently provided the subject matter of art even outside the confines of the funerary realm. The goal of this course will be to explore the complex relationship between art and death in the Roman world. It will range from early Rome to the end of the empire and the changes brought about by widespread conversion to Christianity. In conjunction with historical readings, the course will also engage with theoretical texts in the anthropology and philosophy of death. Prerequisites: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215); one 300-level course in Art History preferred; or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH BU: HUM EN: H
Typical periods offered: Spring

ARTARCH 5305 The Art of Mexico: From Aztec to Contemporary

This survey course draws from selected examples of art and architecture to tell the changing story of Mexico. Beginning with the Aztec and ending with contemporary works, this course chronologically traces artistic manifestations of beliefs, politics, and placemaking. Through movements, revolutionary moments, individuals, and trends, the course creates a portrait of Mexico that is multicultural, dynamic, and creative. Course themes include international relationships, diversity, identity, and politics. Prerequisites: L01 113, Intro to Western Art; L01 215, Intro to Modern Art; L45 165; or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD Art: AH BU: HUM, IS EN: H

ARTARCH 5325 Art of Early Italian Renaissance

This course is a survey of Italian Renaissance art, from its origins to the end of the 15th century. It includes an examination of artists such as Giotto, Masaccio, Donatello, Botticelli, and Leonardo da Vinci. Prerequisite: L01 113.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5331 Greek Art and Archaeology

A survey of the artistic achievements and material culture of the Greeks in the first millennium BCE (Iron Age through the Hellenistic period). Development of architecture, sculpture, and painting, as well as minor arts and utilitarian objects, with emphasis on the insights they offer into Greek society and interactions with the wider Mediterranean world.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5372 American Art to 1980

From the beginnings of modernism in the visual arts of the United States, around 1900, to Abstract Expressionism and the Beat aesthetic.

Focus on the cultural reception and spread of modernism, native currents of modernist expression, from organicism to machine imagery, the mural movement and the art of the WPA, the creation of a usable past, abstraction and figuration, regionalism and internationalism, photography and advertising.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5380 Pleasure and Pain: European Fashion as (Art) History

In the words of Louis XIV, Fashion is the mirror of history. It reflects political, social and economic changes, rather than mere whimsy. This course will survey the history of dress in early modern Europe, using art and material culture to explore the relationship between society and style. Beginning with the Renaissance, we will explore what fashion in (art) history can tell us about gender, sexuality, class, race, and revolution. To incorporate a global perspective (although concentrating primarily on the West), further themes to be considered include the textile trade, commerce and empire, identity politics, and nation-building. From the chopine to the corset, the pannier to the Pompadour pump, we will incorporate surviving examples as we explore the art and history of European fashion from the 15th to the early 19th century. This course is open to students who have previously taken or are currently enrolled in Intro to Western Art. Prerequisite: One course in Art History at the 100 or 200 level.

Credit 3 units. A&S IQ: HUM Art: AH BU: BA, HUM, IS EN: H

ARTARCH 5425 Classical to Contemporary Chinese Art

Surveying Chinese art and architecture from the 10th century through today, this course examines classical and imperial works as the foundation for modern and contemporary art. By engaging with the theoretical issues in art history, we will also pay particular attention to questions of gender, social identity, cultural politics, and government control of art.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH BU: HUM, IS EN: H

ARTARCH 5427 Mirrors of Nature, Dreams of Art: Northern Renaissance Art

This course surveys the visual culture of the Netherlands and Germany from approximately 1400 to 1550: from Burgundian court culture around the time of Jan van Eyck to the fantastic works of Hieronymus Bosch to the international renown of imperial artist Albrecht Dürer and later Flemish urban culture as represented by Pieter Brueghel the Elder. Works in a variety of media will be presented in light of broader consideration of the role of art within devotional practice and the Reformation, courtly culture and the cultivation of artistic imagination, and the rise of print and popular culture. We will consider the power of images to mediate religious experience; the representation of folly and death; the social position of the artist; and the relevance of naturalism. We will also survey the predominant interpretive models that have been developed to analyze the significance of these works.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

Typical periods offered: Spring

ARTARCH 5429 Harlots and Heretics: the Art of Venice

The art and architecture of Venice developed its unique character because of the city's unusual geography, social structure and cultural connections. Built on a network of islands in the middle of a shallow lagoon, how did the inhabitants of this precarious place build an empire that stretched throughout the Mediterranean? This lecture course will explore the visual culture of Venice throughout the early modern period. From food and fashion, to art and architecture, this class will explore styles that were specific to Venice. The family workshop, canvas and colorito, corporate patronage and festivals, Casanova and the Grand Tour are among the themes we will consider throughout the semester.

Credit 3 units.

Typical periods offered: Fall, Spring

ARTARCH 5442 Chinese Painting, Then and Now

Tracing the unbroken history of Chinese painting from the 1st through 21st centuries, we explore the full evolution of its traditions and innovations through representative works, artists, genres, and critical issues. From its ancient origins to its current practice, we will cover topics such as classical landscapes by scholar painters, the effects of Western contact on modern painting, the contemporary iconography of power and dissent, and theoretical issues such as authenticity, gender, and global art history. Prerequisites: Intro to Asian Art (L01 111) or one course in East Asian Studies recommended.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5444 The Forbidden City

Home to 24 emperors of the Ming and Qing dynasties (1368-1911), the Forbidden City today occupies the heart of Beijing and comprises the largest ensembles of premodern architecture in China. This seminar examines the origins of the palace; its construction in the early Ming; the coded symbolisms of its plan and decoration; the rituals of court; and the lives of its denizens, from emperors (including Pu Yi, the last emperor) to concubines and from Jesuit missionaries to eunuchs. The course also considers the 20th-century identity of the site as a public museum and a backdrop to major political events, as well as its role in the urban design and contemporary art of 21st-century Beijing. Prerequisites: L01 113 or L01 215, or permission of instructor. One 300-level course in Art History preferred.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5445 Hydrogen Jukebox: American Art and Culture, 1945-1960

The rise and "triumph" of Abstract Expressionism has long dominated the story of American art following World War II. This seminar will put Abstract Expressionism into context with parallel developments in the arts, photography, and film. Among the topics we will consider are the conversation between émigré artists and American culture during and after the war; the emergence of a "noir" aesthetic in film and literature; the early work of Jasper Johns and Robert Rauschenberg and the so-called "aesthetic of indifference" in relation to Abstract Expressionism; artistic collaborations at Black Mountain College; New York school photography and photojournalism; and the cultural impact of the A bomb. Prerequisites: A 300-level course on 20th century art, photography, or history, or permission of the instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5470 American Modernisms, 1900-1940

American modernism: what is it? What is the nature of its encounter with mass culture? What happened to modernism as it migrated from its high European origins to its middlebrow version in America between the turn of the century and the eve of World War II? What was the rhetoric of modernism in everyday life -- its impact on design, photography, advertising? In addition to the fine arts, this course will look at popular media, film, and photography. Lecture/discussion.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH BU: HUM EN: H

Typical periods offered: Fall, Spring

ARTARCH 5505 Photography in America

This course will consider the practice and use of photography in America, from its invention up to the present, and it will offer various ways of thinking about the medium and its relation to society and culture. Students will come to understand the ways photographic practices shape public perceptions of national identity, ethnicity and gender, nature, democratic selves, and a host of other concerns. We will discuss famous practitioners such as Matthew Brady, Jacob Riis, Lewis Hine, Walker Evans, and Robert Frank. We consider not only the social and public uses of the medium (through such episodes as the New Deal/FSA and photojournalism) but also the private explorations of fine art photographers and the everyday practices of the snapshot. Prerequisite: One course in Art History at the 100 or 200 level.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

ARTARCH 5546 Art and Archaeology of the Ancient Andes

This course chronologically surveys the arts and archaeology of the Andean region of western South America from approximately 3000 BCE to 1532 CE. We will examine the material culture of selected cultures as our point of entry into the understanding of ancient social, political, and religious life. Visual analysis of architecture, metalwork, sculpture, ceramics, textiles, and other art forms will be supplemented by archaeological evidence, colonial documents, theories of religions, and the natural sciences. We will also critically read contemporary scholarship in order to address class themes of power structures, regional interaction, sacred landscape, and materiality. Prerequisite: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215) or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5547 Art & Archaeology of Ancient Mesoamerica

This course surveys the arts and archaeology of Mesoamerica (present-day Mexico, Guatemala, Belize, and parts of Central America) from 1500 BCE to 1521 CE. Beginning with early advanced civilizations and ending with the Spanish conquest, we will examine the material culture of selected cultures as our point of entry into the understanding of ancient social, political, and religious life.

Visual analysis of sculpture, painting, ceramics, architecture, and other art forms will be supplemented by archaeological evidence, Colonial documents, theory of religions, epigraphy, and the natural sciences. We will also critically read contemporary scholarship in order to address class themes of ideology, regional interaction, sacred landscape, writing, and materiality. Prerequisites: L01 113 or L01 215

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H UColl: CD

ARTARCH 5600 Introduction to the Arts of Oceania

Covering one third of the earth's surface, the Pacific Ocean is home to hundreds of different island groups and cultures. The diversity of these islands and their peoples has resulted in an astounding array of cultural traditions, languages, art forms and material culture.

This lecture course offers an introduction to the arts of Oceania, which includes Polynesia, Melanesia, Micronesia and Australia. We will consider the initial settlement of the Pacific followed by the Western "discovery" of these islands. Art forms and cultural practices from Polynesia and Micronesia will be considered, followed by Melanesia, and finally Australia. Each section will survey artistic and cultural practices of the material culture of island groups. Thematic considerations will include carving traditions, body ornamentation/wrapping, animal iconography, trade and exchange of objects, warfare, funerary/ mortuary displays, manifestations of power and religious/ritual objects and displays.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH BU: HUM, IS EN: H UColl: CD

ARTARCH 5603 Italian Renaissance and Baroque Architecture

This course will survey the development of architecture in Italy from 1400 to 1700. From long-established medieval models, we will explore the reintroduction and reinterpretation of Antiquity from the late 14th century onward. The course will then explore how these foundational Renaissance ideals evolved to become Mannerism and found their ultimate expression in Bernini's Baroque. Following a chronological progression, the course will address the structures and theories of the period through its leading architects: Brunelleschi, Alberti, Michelangelo, Palladio, and Bernini, among others. The course will explore a wide range of architectural types, from the centralized church to private palaces and villas. Further themes to be considered will include the development of the architect as a professional, regional styles and their relationship with antiquity, patterns of patronage, and the interior. Prerequisite: L01 113.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

ARTARCH 5605 Impressionist Landscape: Style, Place & Global Legacies 1870-1920

We consider Impressionism as a dominant style of the Parisian art world, first undertaken as an extension of Barbizon naturalism, but soon expanded into an avant-garde style that objectified sensation and emotion in the name of truth in representation. We consider the sites of Impressionism, particularly what constituted interests in certain landscapes and geographies in France over the long course of the movement (1874 to 1925). We will examine the place of individual perception, the physiology of sight, and ideas of nature in the development of the Impressionist landscape, through the consideration of style, genre, artistic theory, and these artists' investments in particular sites. Furthermore, the social, commercial and critical networks that supported the movement will be analyzed. Key artists include Monet, Degas, Morisot, Renoir, Cassatt, Bracquemond, and early work of some Post-Impressionists. A special exhibition at the Saint Louis Art Museum, Women Impressionists and the Land, will allow for multiple visits to the museum, special lectures and one oral report on a painting by a female Impressionist. We will close the semester with discussion of the relationship of the Impressionist landscape to the development of and adaptations of Impressionism in other nations, and its relationship to modernist abstraction, and the aesthetic and nationalist motivations for Impressionism's appropriation across the globe.

Credit 3 units.

Typical periods offered: Fall

ARTARCH 5610 Contemporary Art

This course is a survey of global contemporary art from 1970 to the present. Topics include happenings, minimalism, body art, and neo-expressionism as well as their placement in their social and political contexts. Prerequisite: One course in Art History at the 100 or 200 level.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM, IS EN: H

ARTARCH 5617 Lasting Impressions: Early Modern Print Culture

The advent of movable type (the Gutenberg press) in western Europe heralded a new era, and this enabled the dissemination of information in text and image that was fundamental to the Renaissance and early modern culture in all sorts of ways, not least artistic. Alongside the use of the printing press for public ends, the early modern era witnessed some of the most remarkable artistic achievements in relief (woodblock) and intaglio (copper plate) printmaking. This seminar will study a series of charged moments in the production and consumption of printed artefacts, attending to the aesthetic, material, and epistemological significance of printed images between roughly 1480 and 1650. We will focus on the printed works of artists Lucas van Leyden, Albrecht Dürer, Marcantonio Raimondi, Hercules Segers, and Rembrandt as well as the role of printed images in the sciences. A variety of media and techniques from early stipple engravings to chiaroscuro woodcuts and from *Naturselbstdruck* to sugar-lift-populate the course, as do theories of impression and the role of prints in transcultural, early modern global encounters. Students in this seminar will be directly involved in research towards an exhibition at the St. Louis Art Museum co-curated by Dr. Swan and Dr. Elizabeth Wyckoff, Curator at SLAM, slated for spring 2024. Class meetings will take place in the Study Room at the museum, where students will have ongoing access to works in the collection and discussions with museum professionals.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

Typical periods offered: Spring

ARTARCH 5622 Venice

A seminar focusing on the art of Venice, in particular on Bellini, Giorgione, and Titian. Special attention to the international reputations of these three artists and to problems of patronage, connoisseurship, and interpretation. Prerequisite: ART-ARCH 361 or 362, or permission of the instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5623 High Renaissance Art

A general survey focusing on such outstanding figures of the period as Leonardo da Vinci, Michelangelo, and Raphael. Prerequisites: Intro to Western Art (L01 113) or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5624 Michelangelo

An examination of the life and works of Michelangelo. The most important developments in his architecture, painting, and sculpture; with special attention to his assistants, friends, family, and contemporaries. Prerequisite: Permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5627 By Sea and Sand: Modern Art in the Mediterranean

This course surveys the representation of Mediterranean spaces and cultures in the visual arts from the late eighteenth to the mid-twentieth century during which time transformations across economies, governance, society, and technology took place alongside the expansion and subsequent deterioration of French and British colonial rule in the Middle East and North Africa. In this course, the modern Mediterranean will be viewed from multiple vantage points along its shores and through a range of media, including popular culture, visual culture, material culture, and fine art. In addition to obtaining a strong grasp of the artistic phenomena associated with the Mediterranean during the modern era, students will come to understand the region as a place possessing a remarkably diverse and polymorphous identity, and as a place of fracture, confrontation, mutual incomprehension, innovation, and exchange.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM EN: H



ARTARCH 5629 Caravaggio: Master and Murderer

Michelangelo Merisi (Michael Angelo Merigi or Amerighi) da Caravaggio (29 September 1571 - 18 July 1610) was one of the most important and influential painters of the Seventeenth Century, in Italy and throughout Europe. He was active in Rome, Naples, Malta, and Sicily between ~1592 and 1610. But who was Caravaggio? What do we really know about his tempestuous life, and how it factors in the art he created? Caravaggio was a powerful, brilliant, brutish, and hugely influential artist; a belligerent personality, brawler, and murderer. He was a man of contradictions: a devout Christian and bi-sexual sodomite; a Knight of Malta and a fugitive from the law.

This seminar explores the reality and fiction of this fascinating and influential genius, and places him in his historical, social and artistic contexts -- from Baroque Italy to the modern imagination.

Prerequisites: L01 113; one 300-level course in Art History; and permission of instructor.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM, IS EN: H

Typical periods offered: Spring

ARTARCH 5652 Worldly Goods: Early Modern Art, Trade, Knowledge, Possession

The history of the early modern era has in recent decades been reconceived and rewritten as a history of things and goods. Global trade vectors in particular have shaped new histories of the Renaissance and Baroque eras. Material goods -- many of them newly available on a global scale -- shaped aesthetics, scientific investigation, political relations, identity formation, and devotional practices.

This seminar studies the circulation of worldly goods between approximately 1500 and 1700, charting encounters around the globe by studying objects and persons in circulation. In orientation, the seminar is European, with a focus on the Dutch Republic in the world. Through secondary source readings and encounters with primary source materials, students will gain an understanding of how early modern objects relate to a newly global economy and horizon. Works of art, luxury trade goods, and pirated treasures are the principal sorts of worldly goods under consideration. We will consider the movement of individuals and the slave trade in the context of early modern colonialism as well as how the biographies of objects involve shifts in status and value over geographical space and time. Prerequisites: L01 113 and one 300-level course in Art History or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD Art: AH BU: HUM, IS EN: H

ARTARCH 5655 New Media, New Technologies

In the summer of 2013, Random International's Rain Room was installed at the Museum of Modern Art in New York. Lines to experience the sensation of being rained on without getting wet ranged up to seven hours at times. This merging of new technology with the gallery space proved irresistible, but it also raises questions as to the uses of technology in contemporary art and whether or not this could be much more than a gimmick. As one Yelp reviewer put it, The Rain Room is definitely an experience. Let's be honest... I'm mostly upset that I didn't get a cool, new Facebook profile pic out of it. This course will consider technological developments in modern and contemporary art -- including photography, video and new media, and digital and Internet art -- as well as forays into new technology that blur the lines between art and science.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H
Typical periods offered: Spring

ARTARCH 5656 Baroque Art: Materiality and Experience

The materiality of art is evident-and central to how art looks, how it means, and how it endures. This course is intended as an introduction to the materiality of objects and works of art made during the Baroque era (c. 1550-1700) and to concepts for understanding and interpreting them. Works in a variety of materials-ivory, wax, woods, feathers,

shells and mother-of-pearl, oil paint, lacquer, metal, fresco, stone, porcelain and earthenware-populate a series of case studies drawn from European, Mesoamerican, and East Asian workshops. In addition to learning about what goes into making these works, students will trace the geographies of materials, and the ways in which materials, format, and durability all affect the viewer's experience. Students will read, analyze, and discuss current research on the makings of art, on theories of the materiality of art, and problems in art conservation-and will participate in close examination of works in local museums and special collections. This course will introduce students to some of the central topics in early modern art history as it is practiced by scholars/historians *and* by archaeologists, museum curators, archivists, and conservators. Students will be introduced to a wide data set of objects and art works, and will learn how to analyze, articulate, discuss, and research aspects of their materiality. Rather than focusing on memorization, this course encourages using concepts from a set of assigned readings to reflect on the objects we discuss together. Students will work in small groups and as a class to advance their own vocabulary for and understanding of early modern materiality and experience. Prerequisites: L01 113, L01 215, or permission of instructor

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H
Typical periods offered: Fall, Spring

ARTARCH 5657 The Baroque: Art in an Age of Crisis

The late 16th century was a time of crisis and conflict, and change echoed across Europe and its empires. Religious reform, scientific discovery, and political upheaval shook the foundations of early modern society. Yet from this turbulent time, an era of extraordinary artistic achievement emerged, defined by a dynamic new visual language. This course will examine how "the Baroque" became a global language, from its early beginnings in Rome to Spain, France, Flanders and the Dutch Republic, even extending beyond the borders of Europe to Asia and the Americas. In addition to studying leading artists such as Caravaggio, Bernini, Rubens, Vermeer and Velázquez, important themes to be considered will include space and spectacle in urban planning; the mundane and profane in still life and genre; collections and curios; the church triumphant; and the portrait. Prerequisite: Intro to Western Art (L01 113).

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

Typical periods offered: Fall

ARTARCH 5665 Art and Activism

This course will examine political and social activism in art and visual culture, focusing on the role that visual representation has played in social movements and how artists/activists have employed visual media to challenge and resist dominant visual representations and political formations. We explore key theoretical developments in activist discourse as well as the role of art practices and aesthetic commitments in these developments. This course seeks to represent the development of the relation of art and activism in its broadest intellectual and cultural context within the 20th century and to encourage an appreciation of the complex array of disciplinary perspectives that are implicated in this development. Prerequisite: L01 113, L01 215, or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, CPSC, HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

ARTARCH 5674 Revisiting the Dutch Golden Age: Amsterdam as and At the Center of the Early Modern World

Description

Recent museum and scholarly initiatives have offered innovative, corrective approaches to the study of the seventeenth century in The Netherlands—an era commonly known as the Dutch Golden Age. Within the last decade, numerous museums and special exhibitions have questioned the historical accuracy and political sensitivity of the term; some museum curators have refused to use it any longer, and many scholars have deliberated on its significance, structuring their arguments about the time through other terms. At the heart of conceptions of the Golden Age is the city of Amsterdam, which increased in girth, population, and celebrity between 1600 and 1700. Dutch maritime prowess and trading ventures around the globe resulted in the exponential growth of the urban fabric of Dutch cities and their fame, and Amsterdam was first among equals. Amsterdam was not just the wealthiest, most powerful city in the Dutch Republic, but was praised as the center of the world (*omphalos mundi*) and celebrated in monuments; and the visual arts were practiced and celebrated widely. But the flow of currency and luxury goods was not the only structuring dynamic: the Dutch involvement in the transatlantic slave trade and the gap between rich and poor, powerful and disenfranchised in the burgeoning metropolis are also hallmarks of the time and place. Studying contemporary scholarly and curatorial approaches to a past that has been by turns glorified and disavowed, this seminar will enable students to engage directly with changing conceptions of the history of this time and place—by reading current historical accounts and editorial interventions and meeting with proponents of various views of the subject (e.g., scholars who have opined that doing away with the Golden Age model amounts to throwing the baby out with the bathwater vs. scholars and artists who engage with and propose new lenses for assessing the history of Amsterdam and the Dutch Republic in the context of considerations on political violence and enslavement in particular). The seminar will travel to Amsterdam during spring break 2025, for onsite visits with people, places, and works of art, providing students with the unique opportunity to engage directly with the makings and makers of art history.

Credit 3 units.

Typical periods offered: Fall

ARTARCH 5683 Global Baroque: Art and World-Making

Europe and along Eurasian contact routes between 1500 and 1700 is a primary focus. The course will open with an examination of the significance of the early modern category of the exotic and the role of the exotic or foreign in shaping artistic and collecting practices during a period that tends to be studied with Europe at the center of the world. Throughout the semester, we will explore different modalities of otherness, and the political stakes of representations of self and other within the context of early modern empire- and nation-building. We will analyze paintings, prints, drawings, sculptural objects, naturalia, featherwork, ceramics, porcelain, and textiles alongside primary sources, early modern history and art history, cultural and material history, the history of science, and maritime and diplomatic history. The course attends to the atrocities of slavery in the early modern world and trace the relationship of enslavement to procuring and appreciation of exotic materials. Lectures will incorporate contemporary art (installations, photography, collage, and painting) that actively engages the modern era. The course involves close study of works of art in local collections, and will include visits to the Saint Louis Art Museum, where students will be introduced

to the extraordinary holdings, in particular the Phoebe Dent Weil and Mark S. Weil collection of early modern prints, drawings, and sculpture. Prerequisites: One 100- or 200-level course in Art History; or permission of the instructor

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5684 Picturing Race in the Early Modern World

Many social and cultural roots of modern Western European and American conceptions of race and ethnicity lie in the early modern era, when enslavement came integrally to be linked with Blackness and ideas-and representations-of power relied on a hierarchical politics of racialization and othering. Throughout the early modern era, in Renaissance and Baroque visual art, iterations of racialized identity took hold, in ways and by means this seminar will explore in depth. Through close analysis of paintings, sculptures, architectural and urban design, and the graphic arts, and with frequent reference to chronicles, literature, and legal language of the time, we will trace visual representations of racialized difference throughout the early modern (European) world and to the present. How did early modern European images participate in and help to form a visual culture of race? This seminar will explore fifteenth-, sixteenth- and seventeenth-century European representations of racialized others by artists Albrecht Dürer, Hans Burgkmair, Hieronymus Bosch, Peter Paul Rubens, Rembrandt van Rijn, and others. We will also consider ethnographic imagery, maps, and other forms of representation—as well as responses by contemporary (20th- and 21st-century) artists to the conventions of race-crafting laid down in the early modern era. Geographically, the materials we study issue from western Europe and focus on encounters with Western Africa, but the seminar considers European engagement in the American colonies, Melanesia/Indonesia, the Atlantic and Brazil—and with the Islamic world. Prerequisites: One 100-level Art History course or permission of the instructor

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

ARTARCH 5690 On Beauty: Aesthetics and Its Discontents

During the past decade a variety of theorists have sought to return our attention to the subject of beauty, and in particular to the experience of the beautiful in contemporary art. What all of these authors share is a desire to revitalize the autonomy of aesthetic experience and judgment. Their hope is to counterbalance what they consider a long history of aesthetic denigration, pursued in various forms by the modernist proponents of the sublime, the political agendas of the avant-garde, the hybrid practices of postmodernism, and the itineraries of cultural studies. The task of this seminar is to explore various discussions of the aesthetic since the late eighteenth century to provide a more rigorous basis for contemporary debates about the return of the aesthetic. Special attention will be given to the ways in which classical aesthetic theory sought to situate art and the beautiful in opposition to the everyday, the moral, and the political, but also to how this construction of aesthetic autonomy has been challenged or renegotiated in the name of various modernist projects. Readings include texts on art and the beautiful by authors such as Winckelmann, Kant, Hegel, Fiedler, Adorno, Benjamin, Marcuse, Heidegger, Danto, and Scarry, but also on the reconceptualization of the aesthetic in the context of contemporary media and installation theory. Additional focus will be given to a number of aesthetic objects—dramas, poems, sculptures, paintings, and installations—to both probe and complicate our examination of modern aesthetic thought. All readings and discussions in English.

Credit 3 units.

ARTARCH 5722 US Arts and Visual Culture, 1890-1980

Credit 3 units.

ARTARCH 5741 From Ancient Tichitt to Zimbabwe: The Archaeology and Arts of the Urban Past in Africa

Urbanism and urbanization -- the emergence and development of densely populated towns, often cradles of novel and specific arts, institutions, industries, philosophies, ideologies, and identities -- have a deep history on the African continent. From the earliest settled towns of the ancient world in Tichitt (in present-day Mali and Mauretania) and the Nile Valley, to the bustling "Medieval" metropolises of Ilé-Ifé (Nigeria), Great Zimbabwe, and the Swahili coast (East Africa), the continent witnessed a range of trajectories and outcomes of urban development, leading to diverse forms of hierarchy, heterarchy, social organization, technologies, and arts often very distinctive from those of Europe and the Islamic world beyond Africa. Given that much of the continent did not use written documentary sources until relatively recently, approaches and methods from the disciplines of archaeology and art history are among the best tools to investigate and understand its deep-rooted and sophisticated urban past, and the fundamental contributions of this to the modern world. This class explores the origins, development, and florescence of forms of urbanism and statehood across the African continent, focusing on the complex social structures and dynamics that emerged from, and shaped, these processes, as well as the rich archaeological and artistic record that they stimulated. It will begin by moving chronologically through this long history, and later branch into largely coeval regional examples. Students will have the opportunity to learn about the archaeology and arts of critical urbanized polities such as the early Sahelian metropolis of Djenné-Jeno (Mali), the empires of Dahomey, Oyo, Benin (West Africa), and the kingdom of Kongo (Central Africa) among others.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM

Typical periods offered: Fall, Spring

ARTARCH 5745 Cahokia to Contemporary

The arts of Native American communities demand a primary place in both American and global art histories. The historic depth, variety of cultural expression, and circumstances of the collection, exhibition and interpretation of native arts continue to demand our careful and critical attention. We are well situated in St Louis to consider both the indigenous artistic cultures of our own region, and to observe the vitality of native modern and contemporary art practice. Key concerns include the artists' relationship to space and place, their presentation of identities, politicized and activist dimensions of their practices, their negotiation of issues of race and gender, and their conscious relationships to both historic traditions and to contemporary culture. Through the study of local collections and special exhibitions on view in 2023, we will examine a significant range of works-from the Mississippian cultures exemplified by the nearby sites of Cahokia and Sugar Loaf Mound, to the collection of historic materials we will study at the Kemper Art Museum, to the modern and postmodern works on view locally by such artists as Fritz Scholder, Edgar Heap of Birds, Juane Quick-to-See Smith, Faye HeavyShield, Wendy Red Star, Rose Simpson, and others. Class field trips to Cahokia, to the CounterPublic Triennial in St. Louis, and on a spring weekend to Washington DC to visit the National Museum of the American Indian are funded by a generous grant from the Mark S. Weil and Joan M. Hall Endowment for Art History & Archaeology.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: AH, HUM BU:

HUM, IS EN: H

Typical periods offered: Fall, Spring

ARTARCH 5746 California Dreamin': Los Angeles Culture and the Making of the 20th Century

California Dreamin' delves into the many cultures of Los Angeles, a dynamic global city with its cultural origins in the early 20th century. Over its decades of development and transformation we will explore continuities and new directions. The region has always been an

encounter zone: between indigenous cultures, colonizers from Mexico, Pacific rim, and Anglo settlers. How has this cultural richness taken different shapes over the course of the 20th century? LA offers an especially cogent site for understanding how a city with a very specific if layered urban identity has been constituted by and through representation. Over the semester we traverse a range of cultural texts--the arts and architecture, film, literature, and urbanism--where the image of the city has been shaped. The course asks how Los Angeles culture at various points struggled to find new articulations and avenues into the future, against the weight of its own defining histories. A week-long trip to Los Angeles -supported through our dedicated travel fund in AHA-will give students an opportunity to see firsthand how the presentday city and its many sectors find expression in the arts and visual culture, or give evidence of different realities. Prerequisite: Minor or major status in AHA; Any course in 20th c.

American arts, literature, or film. Or permission by instructor

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5764 Bodymorph: Fantasy Worlds of American Visual Culture, Animation, and Product Design

This lecture and discussion-based course engages students in media beyond the fine arts, which shaped in fundamental ways how ordinary Americans experienced life during decades of dynamic change and modernization over the first half of the 20th century. We consider cartooning and animation, film, advertising, product design, department stores and the visual strategies of consumer culture, jazz aesthetics, the skyscraper city, and more. We set these new forms within broad changes in the rhythms of everyday life driven by industrialization and new technologies, as well as how filmmakers, animators, and artists both expressed these new realities, as well as how they turned in response to the handmade, the primitive, and the embodied. We look at the uneasy exchanges between high art and mass media; and at the open borders between surrealism, advertising, and art. Prerequisites: Any introductory or 300-level course in Art History or American Culture Studies, History, or literature

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

ARTARCH 5784 The Modernist Project: Art in Europe and the United States, 1905-1980

This course surveys major tendencies in painting and sculpture, from Fauvism in France and Expressionism in Germany to the beginnings of Postmodernism in photo-based work in the United States. About two thirds of the course will treat European art, and about one third will treat American art. Photography, architecture, and work in other forms will be considered selectively when pertinent to the individual class topics. Within the lecture topics, emphasis is on avant-garde innovation; the tension in modernist art between idealism and critique; reaction by artists to current events; the relationship between art and linguistics, philosophy, literature, economics, and science; the role of geopolitics in art production; the intersections of art and society; the role of mass culture; issues of race and gender in the production and reception of art; and the challenge to the concept of authorship and creativity posed by Postmodernism at the end of this period. Prerequisite: One course in Art History at the 100 or 200 level.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

ARTARCH 5815 Rococo to Revolution: Art in Eighteenth-Century Europe

The Long Eighteenth Century serves as a bridge between two fundamentally different times. The Europe of 1700 was dominated by absolutism and the ancien régime. The Europe of 1800 was in an age of revolution. This course will explore the dramatic shift in artistic representation and individual self-conception that occurred throughout the century to usher in our modern age. Important topics to be considered include: the rise of the Academy; the Enlightenment

and the Encyclopédie; the Grand Tour; Art and Science; and the French Revolution. Focusing on the development of artistic trends, the course will address transformations in painting, sculpture and architecture throughout Europe.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM, IS EN: H

ARTARCH 5838 Modern Art in Fin-De-Siecle Europe, 1880-1907

This course examines artistic production at the turn of the century in France, Belgium, England, and Scandinavia. Beginning with the reevaluation of impressionism and naturalism in France, we examine Neo-Impressionism (Seurat and Signac) and Symbolism (Moreau, Van Gogh, Gauguin, the Nabis, Rodin, and Munch), as well as later careers of Impressionists (Cassatt, Monet, Degas, and Renoir). We will consider cross-national currents of Symbolism in Belgium and Scandinavia; the Aesthetic Movement in Britain; the rise of expressionist painting in French art (particularly with the Fauvism of Matisse and Derain), and the juncture of modernist primitivism and abstraction in early Cubism (Picasso). Prerequisite: L01 113 or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

ARTARCH 5860 van Gogh: Creativity, Mythology, and Modern Art

Among the most famous artists of the canon of European modern art is Vincent van Gogh, known for his expressive paintings, his famous letters that chart his tumultuous career, and a short creative life marked by intense work, passionate interests in the modern art and literature of his time, and the challenges of a mental illness. This seminar will examine his art and literature in three sections: the first devoted to studying the art itself throughout his short career; the second devoted to the mythologies surrounding his art and its relationship to such notions as genius and madness; and the third looking at how his art has become a popular commodity, reproduced internationally by methods varying from precise painted replicas to commercially popular goods marked with his most famous paintings. The history and theory of modern commodity culture on a global scale and its intersection with a burgeoning art market for postimpressionist art will be explored in this final section. Prerequisites: L01 113 or L01 215 and one advanced course in art history, or permission of the instructor

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5861 Gauguin Then and Now: Art, Myth and Controversy

An examination of the art and career of Paul Gauguin (1848-1903) and the artistic, social, and political milieu of colonialism in which he worked in France, Polynesia and the Caribbean. Topics include avant-garde Impressionist and Symbolist cultures, the power of the art market/dealer system, the artist's writings (in translation), French colonial culture and pervasive myths of island paradise, and the pressing critiques offered today by post-colonial and feminist theory. Final third of the course will focus on the varied global reception of his work in the 20th and 21st centuries, and controversies over his art, writings and legacies, particularly among contemporary Pacific Islander artists, and artists of color. We will consult museum collections as possible; French language skills for research are useful, but not required. Recommended prerequisite: At graduate level, at least one course in modern art history at undergrad or graduate level; or permission of instructor.

Credit 3 units.

Typical periods offered: Fall

ARTARCH 5876 Rejecting Reason: Dada and Surrealism in Europe and the U.S.

In this multimedia interdisciplinary course, we will consider the history, theory, and practice of Dada and Surrealism, from its Symbolist and Expressionist roots at the end of the 19th century and the beginning of the 20th century through its late expressions in the beat culture and pop art of the 1950s and 1960s. Dada's emergence in Zürich and New York in the midst of World War I set the tone for its stress on irrationality as an oppositional strategy. Surrealist research into the domain of the unconscious continued this extreme challenge to dominant culture but in a revolutionary spirit that proposed new possibilities for personal and collective liberation. The international character of the movements -- with substantial cross-transmission between Europe and the United States -- will be emphasized.

Prerequisites: L01 113, Intro to Western Art; L01 215, Intro to Modern Art; or permission of instructor.

Credit 3 units. A&S IQ: HUM Art: AH BU: HUM EN: H

ARTARCH 5877 Critical Studies in Portraiture, Ancient to Contemporary

To study portraiture is to confront the complexity of human identity. The central theoretical question of this course is how identity can be expressed in a portrait. Following the consideration of theories of portraiture, identity, and artistic representation, we will treat specific historical and cultural instances of portrait-making, from ancient Greece to the present. Non-Western cultural examples will broaden the scope beyond the conventional conceptions of portraiture. We will conclude by trying to understand the continuing allure of the portrait today as digital media challenge our conventional ideas of visually and perhaps even the urgency of portraiture in the post-human age. Prerequisites: L01 113 or L01 215; or permission of instructor. One 300-level course in art history preferred.

Credit 3 units.

Typical periods offered: Fall, Spring

ARTARCH 5893 Modern Sculpture

This course will survey sculpture in Europe and the United States from about 1800 to the present, with an emphasis on the period from 1890 to 1980. A rapid traverse of Neoclassicism, Realism, and the rage for statuary during the later 19th century will take us to the work of Rodin and to a more systematic exploration of developments in the sculpture of the 20th century. Particular emphasis will also be placed upon the work of Brancusi, Picasso, Matisse, Duchamp, Giacometti, Oppenheim, David Smith, Serra, Morris, Judd, Hesse, and Bourgeois. An important theme running through the course as a whole -- from an age of nationalism and manufacturing to our own time of networks and information -- is the changing definition of sculpture itself within its social and political context. We will also explore various new artistic practices (e.g., video, performance, installations, body art) and interrogate their relationship to sculptural tradition and innovation. Prerequisite: L01 113, L01 215, or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH BU: HUM EN: H

ARTARCH 5913 Queer: Arts, History, Theory

The term "queer" has come into greater circulation over the past two decades, but it has a longer history. Over the course of the 20th century, queer networks have enacted distinct new gendered, interpersonal, communal, and expressive forms, in both private and public arenas. As a term that resists alignment with specific identity categories, queer has the potential to unsettle not only the borders of identity but the grounds on which such identities are secured. The 'queering' of the humanities has extended beyond studies of sexuality and gender, and productively undermined the essentialisms that still linger in our understanding of human potential. Queer is also a lens through which to explore the cultural, social, and political processes of "normalization." Using this lens the seminar offers a

space to question and map the imprisoning impact of normativity on our collective possibilities. We'll examine its impact on how Art history and other fields have been constructed as a discipline. The seminar toggles between histories of 20th century queer networks, and essays that theorize their artistic, social, and political impact, from redefining boundaries between public and private to strategies of subversion; the impact of "queer" on the politics of identity and political recognition; and queer performance culture across the 20th century.

Credit 3 units.

Typical periods offered: Fall

ARTARCH 5915 Beyond Limits: Transgression, Controversy, and Censorship in Modern Art

This course will examine some of the public controversies that surrounded the development of modern art over the last 150 years to probe the question of the social and political functions of transgressive art. After reviewing key theories of the avant-garde, we analyze both the persona of the modern artist (e.g., Van Gogh, Picasso, Pollock) and the place of women artists in the revolutions of modernism (e.g., Cassatt, Hoch, Kahlo). A key issue to address is how modernism tests limits by asking what is (and is not) art (e.g., Duchamp, Brancusi). Some of the most controversial exhibitions in this time frame, from the Salon des Refuses in 1863 to *Mirroring Evil* in 2002, highlight the challenges raised by modern artists' treatment of the body. Controversies over public funding of contemporary art, debates waged over public art in St. Louis, and the recent episodes of iconoclasm with respect to Confederate monuments and memorials will close the course. Prerequisites: L01 215 and any 300-level course in Art History or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, CPSC, HUM BU: HUM EN: H

ARTARCH 5918 Modern War in Art

Art and war have always been intertwined, whether in glory or revulsion. But modern art and modern war are qualitatively different from their counterparts in the past in ways that ensured that their relationship would become more problematic and oppositional. The challenge of finding new artistic languages to express the new conditions of mechanized combat led many artists to explore abstraction, fragmentation, absurdity or arbitrariness to convey the energy, impersonality and nihilism of modern war. When the British soldier and poet Wilfred Owen (1893-1918) wrote of the human devastation of World War I as obscene as cancer, bitter as the cud, he strained for metaphoric language appropriate to its magnitude. We will consider the same challenge to visual artists throughout the modern period. Prerequisites: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215); one 300-level course in Art History preferred; or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH, HUM BU: HUM EN: H

ARTARCH 5930 Picturing the Anthropocene: Landscape, Land Art, and Eco Art

Without a doubt, questions concerning environmental crisis and the habitability of our planet are among the most pressing of our time. Artists, documentary photographers, and filmmakers alike are tasked with conveying the complexity of these issues to a wider public, mediating between environmental theories of human and nonhuman connection, the decolonial project and human inequalities, and the encoded values of the historical landscape genre. This course will cover the history of 19th-century landscape and its legacy today, the 1960s Land Art movement and its relationship to modern environmentalism, and the nuances of contemporary eco art. In addition, we will go in-depth into some of the most prolific media within eco art, including

photography and film, and explore the contemporary debates specific to these fields. Finally, the course concludes with propositional texts from artists and theorists about the future of our planet and our species within it.

Credit 3 units.

Typical periods offered: Fall

ARTARCH 5961 Art & Ecology

This course provides an overview of the twentieth-century history and contemporary debates concerning art and ecology. It begins with the nuclear age in the postwar United States and the Pacific, on through the techno-utopian hippie modernist, Land Art, and early ecological movements of the 1960s. We situate contemporary eco art within this longer historical context, as well as climate science and politics. This course takes a case study approach, with one key artwork each class period, around which we will build context and trace relevant connections. Students will be responsible for identifying key artworks and articulating their significance on the exams. We will also locate eco art discourse within our St. Louis context, undertaking a site-specific project during the course of the semester. Undergraduate Prerequisites: one introductory Art History course or permission of the instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

ARTARCH 5977 Mapping Art, Race, & Community in The US-Mexico Borderlands

This upper-level undergraduate seminar will delve into the history of border art as a category, whether in terms of public art, sculpture, installation, new media, or performance, using the U.S.-Mexico border as an extended in-depth case study. Students will collaborate to add to an ongoing mapping project of community engaged art on the border and create multimedia materials to augment or interpret the data as they see fit. As such, this course builds Digital Humanities practices and methodologies throughout the semester. Students in the course will also work to map race and population data along with their chosen artworks. In doing so, the course challenges students to think beyond U.S.-centric concepts of race and ethnicity and explore how the third space of the border shapes artistic practices and approaches to community. Prerequisites: One introductory Art History course or permission of the instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

ARTARCH 5999 Independent Study

This graduate-level independent study is a course designed to offer MA and PhD candidates the opportunity to engage in self-directed learning focused on a specialized topic of their choosing in consultation with a member of the faculty. Under the supervision of the faculty advisor, students undertake a semester-long course of study that covers areas not represented by course offerings that are nonetheless crucial for the completion of the degree. Working closely with the faculty advisor, students will devise a plan of study, establish objective, and regularly meet to discuss progress and receive feedback. This course offers variable graded of 1-3 units and is repeatable with a maximum of 6 graded units.

Credit 1-3 units.

Typical periods offered: Fall, Spring

ARTARCH 6150 Qualifying Papers for the MA Degree

Every student fulfilling the requirements of the MA degree in the Department of Art History and Archaeology will prepare two Qualifying Papers (QP), each 25-30 pages. Together the QPs will constitute the capstone experience of the MA degree, and a demonstration of potential for more advanced graduate work. Prereq: Art History graduate status in good standing.

Credit 3 units.

Typical periods offered: Fall, Spring

ARTARCH 6200 Qualifying Paper for The Masters Degree

Every student fulfilling the requirements of the Masters Degree in the Department of Art History and Archaeology will prepare one Qualifying Paper (QP). The QP constitutes the capstone experience of the MA degree, and the demonstration of potential for more advanced graduate study. The expectation for the QP is that the student will revisit a research paper undertaken in a seminar, deepen the research and/or expand the scope of the topic, and submit an 8,000–12,000-word paper with additional full scholarly apparatus: notes, bibliography, list of illustrations, and appendices if needed. A QP will in principle arise from a completed seminar research paper, and students should begin considering potential QP topics as early as possible. The student and the instructor of the relevant course will decide together if the research topic is suitable for a QP; this instructor will normally serve as the QP's advisor. The advisor of the QP must be a current or past tenure-stream faculty member of the Department of Art History and Archaeology; the second reader may come from outside the department, with permission of the QP advisor, and is normally a full-time faculty member in Arts & Sciences. Formerly tenured Art History and Archaeology faculty members on phased retirement may be eligible for both roles. The role of the second reader will vary depending on the topic and needs of the student for specific guidance. MA candidates register with the primary advisor for one 3-hour course, ARTARCH 6200 "Qualifying Paper for the MA Degree," in the fourth semester of study. Students will submit the final draft of the Qualifying Paper to the advisor and second reader by March 15th of that semester.

Credit 3 units.

Typical periods offered: Fall, Spring

ARTARCH 9000 PhD Comprehensive Exam Preparation

Guided preparation of major and minor areas for PhD comprehensive exam. May be taken for 3 or 6 hours.

Credit 9 units.

Typical periods offered: Fall, Spring, Summer

ARTARCH 9005 Dissertation Prospectus

Guided preparation of required dissertation prospectus.

Credit 3 units.

Typical periods offered: Fall, Spring

Art History and Archaeology, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** Minimum 36 units
- **Degree Length:** Four semesters/two years
 - **Note:** Students must be enrolled in at least 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students must maintain a minimum 3.0 cumulative GPA.

Applicants for admission to the graduate program are normally expected to have completed 18 units of undergraduate study in art history. However, the department welcomes applications from students with less background in art history who show strong preparation in such fields as classics, history, philosophy, literature, anthropology, and Asian studies.

Requirements for the master's degree in Art History and Archaeology are 36 minimum units of graduate-level courses, normally taken as three courses per semester over four semesters, including ARTARCH 5002 Graduate Seminar: Methods in Art History and ARTARCH 6200 Qualifying Paper for The Masters Degree, which serves as a capstone course in the fourth semester, in which the candidate revises a seminar paper for presentation to the faculty as a Qualifying Paper. In addition, students must demonstrate department-specific competencies in a foreign language. For students in Asian art, this language should be an Asian language. Students in ancient art may be required to demonstrate reading knowledge in an ancient language.

Required Courses

Code	Title	Units
ARTARCH 5002	Graduate Seminar: Methods in Art History	3
ARTARCH 6200	Qualifying Paper for The Masters Degree	3
Total Units		6

Qualifying Examinations

No comprehensive examinations are required for the degree.

Every student fulfilling the requirements of the MA degree in the Department of Art History and Archaeology will prepare one Qualifying Paper (QP). The QP will constitute the capstone experience of the MA degree and the demonstration of potential for more advanced graduate study. A student fulfilling MA requirements will receive credit for one 3-unit course, ARTARCH 6200 Qualifying Paper for The Masters Degree, in the fourth semester of study.

Phone: 314-935-5270

Website: <https://arthistory.wustl.edu/>



Art History and Archaeology, PhD

Phone: 314-935-5270
Website: <https://arthistory.wustl.edu/>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 39 minimum credits
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students must maintain a minimum 3.0 cumulative GPA. Students must receive a grade of B or higher for a course to count toward program requirements.

Students in the PhD program in Art History and Archaeology will enroll in three semesters of full-time graduate-level coursework (9 graduate credits per semester), including ARTARCH 5002 Graduate Seminar: Methods in Art History. In the fourth semester of the program, students will enroll in 9 credits of ARTARCH 9000 PhD Comprehensive Exam Preparation and will successfully pass comprehensive exams in a major and a minor field. Students who have taken two courses in a minor field area of the Comprehensive Exams may take a third graduate-level course in that field during the fourth semester of study in order to pursue the minor field exemption; if so, they will enroll in 6 credits of ARTARCH 9000 PhD Comprehensive Exam Preparation. Generally, students will sit for their Comprehensive Exams during their fourth semester.

In the fifth semester, students will enroll in 3 credits of ARTARCH 9005 Dissertation Prospectus and successfully defend the prospectus. To be admitted to PhD candidacy, students must also demonstrate department-specified competencies in two foreign languages and complete all candidacy requirements as defined in the Doctoral Candidacy section. Students in ancient art and Asian art may have additional language requirements.

Once students are admitted to candidacy, they may then continue to enroll in ASGS 9000 Full-Time Graduate Research/Study or ASGS 9001 Full-Time Graduate Study in Absentia until the completion of the degree or the end of the program length.

Each PhD candidate, as evidence of mastery of a specific field of knowledge and capacity for original, scholarly work, must complete a dissertation. The subject, as outlined on the Title, Scope, and Procedure Form, must be approved by a Research Advisory Committee consisting of at least three tenured or tenure-track faculty members. This committee is ordinarily led by the student's major advisor and must be approved by the Office of Graduate Studies. Often, the members of the Research Advisory Committee serve as the foundational members of the dissertation defense committee. Students should refer to the dissertation guide for more information regarding the complete composition of the dissertation defense committee. The Title, Scope, and Procedure Form for the dissertation must be signed by the committee members and by the program Chair, and then submitted to the Office of Graduate Studies, before the start of the student's eighth semester.

Upon completing the dissertation, students must defend it before a committee of at least five faculty members. Four of the five committee members must be tenured or tenure-track Washington University faculty; one of these four may be a member of the Emeritus faculty. The fifth member must have a doctoral degree and an active research program, whether at Washington University, at another university, in government, or in industry. Additionally, three of the five committee members must come from the student's degree program; at least one of the five must not. After successful defense, students must submit an electronic version of the dissertation online to the Office of Graduate Studies.

Required Courses

Code	Title	Units
ARTARCH 5002	Graduate Seminar: Methods in Art History	3
ARTARCH 9000	PhD Comprehensive Exam Preparation	6-9
ARTARCH 9005	Dissertation Prospectus	3

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of

time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

The PhD Comprehensive Exam is intended to test a student's general knowledge as well as mastery of their area or areas of specialization. It is designed as both preparation for and preface to conducting the rigorous, in-depth research necessary for successfully completing a dissertation, and as a means by which students can enter the discourses of professional art history they will encounter in teaching, research, curatorial, and related practices. The comprehensive exam is not intended to be a singular, definitive event in and of itself, but rather a part of a larger process of scholarly and professional development that occurs as students move from coursework to dissertation writing, and it should be structured as an open and collaborative dialogue between students and members of the exam committee.

Students will prepare for and sit the comprehensive exam in the semester after the completion of coursework requirements, which will typically be the fourth semester in the program. During that semester, students will enroll in 9 credits of ARTARCH 9000 PhD Comprehensive Exam Preparation. Students will be examined by a PhD Comprehensive Exam Committee, normally consisting of two or three faculty members in a major area and a minor area. The major advisor must be a tenure-stream faculty member from within the department. Students may exempt the minor area exam by taking three courses in the minor area with a grade of A (for one course they may receive an A-) and completing a one-week paper or similar intellectual exercise. Students who have taken two courses in the minor area during the first three semesters of the program may take the third course during the fourth semester; in that instance, they will enroll in 6 credits of ARTARCH 9000 PhD Comprehensive Exam Preparation.

Each student will normally follow one of two formats for the PhD Comprehensive Exam: 1) a written exam to be followed within 2 weeks by an oral defense; or 2) an oral exam to be followed by a two-week written paper in the major area.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

To advance to doctoral candidacy, students must have, at a minimum, achieved the following by the end of their fifth semester in the program:

- Completed all required courses;
- Demonstrated reading proficiency in no fewer than two foreign languages;
- Passed the Comprehensive Exam in the major area;
- Passed the Comprehensive Exam in the minor area (or have exempted this requirement through related coursework);
- Determined a three-person Research Advisory Committee for the dissertation; and
- Successfully defended the Dissertation Prospectus.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

Students must complete 70 units of mentored experiences. Consult the Mentored Experience Implementation Plan tab for more details.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from

attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu Of a PhD

Students enrolled in the PhD program in Art History and Archaeology who are in good standing and who have not already earned a master's degree in Art History, Archaeology, or a related discipline who withdraw from the program after completion of 30 graduate-level credits, including 3 credits of ARTARCH 5002 Graduate Seminar: Methods in Art History and at least 3 credits of ARTARCH 9000 PhD Comprehensive Exam Preparation, may be eligible to receive an MA in lieu of a PhD.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching — whether in the classroom, the gallery, the field, or beyond — is at the core of the disciplines of art history and archaeology. Engaging in teaching is a crucial experience for PhD students no matter their professional goals. Through the Department of Art History and Archaeology's Mentored Teaching Experience (MTE), our PhD students not only solidify their base of field-specific knowledge, they also learn how to guide undergraduate students to develop skills that extend far beyond disciplinary boundaries and in turn sharpen those skills themselves. These include the close attention to detail and precise observation of visual analysis, effective techniques for communicating ideas and arguments in speech and writing, and a sense of historical context and the development of cultural traditions, to name just a few.

Students in Art History and Archaeology are carefully mentored in their teaching endeavors, and their efforts have been frequently acknowledged by school-wide awards for teaching excellence. Our students also have the opportunity to enhance their professional portfolios through mentored professional experiences.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

PhD students in Art History and Archaeology are required to complete at least two activities in teaching preparation by the end of their third semester. They are encouraged, however, to undertake them as soon as possible in their program. The precise combination of these activities will be determined in conjunction with a student's academic advisor and the departmental Director of Graduate Studies.

Potential activities include the following:

- The Center for Teaching and Learning's teaching orientation workshop
- The successful completion of ARTARCH 5013 The Digital Art Historian
- Attendance at three 90-minute Center for Teaching and Learning pedagogy workshops
- Targeted English-language coursework for second-language teaching, such as CAPS-ELP 4470 Language, Culture, and Interaction Strategies for Instruction

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

All PhD students are required to complete 70 MTE units to successfully complete the program. Before each semester of the MTE, students and faculty will complete a mentorship plan, which will outline the roles and responsibilities of each party, as well as how feedback will be shared. For most students, the MTE requirements will take the form of five semesters of AI responsibilities in one of the department's 1000, 2000, or 3000-level courses. Assignments will be made according to departmental priorities, in some combination of the following, with the typical distribution being four semesters of 15 MTE units and one semester of 10 MTE units.

ARTARCH 1510 Introduction to Asian Art	
AI leading two sections	15 MTE units
AI leading one section	10 MTE units
ARTARCH 1515 History of Western Art, Architecture, and Design	
AI leading two sections	15 MTE units
AI leading one section	10 MTE units
ARTARCH 2020 Introduction to Modern Art, Architecture, and Design	
AI leading two sections	15 MTE units
AI leading one section	10 MTE units
All other ARTARCH 2000- and 3000-level courses	
AI without section-leading responsibilities	10 MTE units
Leading sections or equivalent pedagogical work	Can result in 15 MTE units, upon petition to the DGS

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take four times

Pathway #2

ASGS 8010	Take four times
ASGS 8015	Take two times

Pathway #3

ASGS 8010	Take seven times

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

With Department pre-approval, PhD students in Art History and Archaeology may engage in up to two optional semesters of the PIP. The MPE in Art History and Archaeology can be fulfilled by a wide range of activities that advance the professional interests of PhD students. These could include, for example, activities within a museum context, whether in a curatorial department or in other branches of museum administration. They could also include experiences with nonprofit arts organizations, with libraries or archives, or with another unit within Washington University. Whatever their precise nature, the tasks undertaken as part of the MPE should be intellectually substantive, and they should offer a way for the student to develop new skills and knowledge bases. Ultimately, the scope of the MPE will be determined via conversations among the student, the external mentor, the dissertation supervisor, and the Director of Graduate Studies.

Prior to the start of the semester in which the MPE will occur, the student and the external mentor will submit a plan to the department detailing the scope of the activities to be undertaken, which should include a schedule and a list of projected outcomes. In addition, the mentor will provide an explicit commitment to the mentorship. During the course of the semester, the mentor and mentee should meet frequently (weekly or biweekly) to track the progress of the student's work. At the end of the MPE, the mentor should provide a written assessment (approximately 500 words) of the overall learning experience for the student and include comments on the quality of the student's performance.

Optional Pathway

ASGS 8120	Take one or two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

The department recognizes that some students have a particularly strong interest in developing their teaching abilities and offers an optional TIP. Students have until the end of their third year in the program to decide whether they wish to pursue the TIP. A student's admission to this pathway will be contingent upon faculty evaluations of the student's prior teaching, the fit of the proposed course to departmental needs and schedule, and the faculty's commitment to further mentoring. Students pursuing the TIP will complete 90 MTE units over their program length, and they are strongly encouraged to also complete the graduate teaching certificate with the Center for Teaching and Learning. The TIP offers students the opportunity to engage in Mentored Independent Teaching (MIT), and one semester of MIT is equivalent to 20 MTE units.

The MIT can be completed in a variety of ways, including the following:

- Serving as the instructor of record for an ARTARCH 1000 or 2000-level course under the guidance of a full-time faculty member
- Serving as a co-instructor for an ARTARCH 1000, 2000, or 3000-level course alongside a full-time faculty member
- Serving as a supplementary instructor for an ARTARCH 1000-level course with substantial intellectual responsibilities, potentially including developing aspects of course design, delivering lectures, and supervising AIs

Optional Pathway

ASGS 8020

Take one time

Biology

The Master of Arts in Biology program is no longer accepting new students and will end in Spring 2027. The PhD in Ecology & Evolutionary Biology is in the process of moving from the Division of Biology and Biomedical Sciences to the school of Arts & Sciences. New students for Fall 2026 will apply through Arts & Sciences.

The **Master of Arts in Biology** program helps students to update and deepen their knowledge of the biomedical sciences, prepare for employment in related fields, and advance their professional standing while obtaining a graduate science degree on a part-time basis with some options for evening and online courses.

The program is designed to be adaptable to each individual's unique background and goals, and it provides a flexible curriculum and close individual advising for each student. Students include science and health professionals, teachers, technicians, and individuals in biology-related businesses.

The graduate program in **Ecology & Evolutionary Biology (EEB)** explores the ecological and evolutionary processes that create and maintain biodiversity. The program combines field studies with biogeographic, computational, molecular, statistical, and theoretical approaches to gain an understanding of the ecology, evolution, and conservation of populations, communities, and ecosystems. Students' research opportunities are enriched by the university's partnerships with local institutions. Tyson Research Center, the environmental field station of Washington University in St. Louis, provides opportunities for field studies in local aquatic and terrestrial ecosystems. The Missouri Botanical Garden conducts systematic studies of plant diversity worldwide. The Saint Louis Zoo facilitates studies of the conservation biology of animals. Our faculty and students also conduct studies on a global scale at field sites in Africa, Asia, and South America.

Research in the program cuts across scales of biological organization, from genes to ecosystems. Study systems include a variety of model organisms (*Anolis*, *Dictyostelium*, *Drosophila*, *Plantago*, *Trifolium*), agricultural and domesticated species, human populations, and various natural plant and animal populations and communities spanning temperate and tropical ecosystems.

Contact: Philip Osdoby (MA in Bio), Jonathan Myers (EEB)
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Faculty

Chair

Ram Dixit

Chair of Biology; Professor of Biology
PhD, Cornell University

Co-Chairs

Barbara Kunkel

Professor of Biology; Associate Chair of Undergraduate Education
PhD, Harvard University

Petra A. Levin

George William and Irene Koechig Freiberg Professor of Biology;
Associate Chair of Faculty Research and Development
PhD, Harvard University

Kenneth M. Olsen

George William and Irene Koechig Freiberg Professor of Biology;
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PhD, University of Washington

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Tuan-hua David Ho

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PhD, Johns Hopkins University

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Peter H. Raven

PhD, University of California, Los Angeles

Nobuo Suga

PhD, Tokyo Metropolitan University

Alan R. Templeton

PhD, University of Michigan

Robert E. Thach

PhD, Harvard University

Degree Requirements

- Biology, MA (p. 124)
- Ecology & Evolutionary Biology, PhD (p. 126)

Courses

BIOL 5000 Biology and Biomedical Sciences Journal Club

This journal club will explore current topics in Biology and Biomedical Sciences. Current literature will be reviewed for advanced methods, statistics, tools, and other resources in the field. Students will learn about and how to evaluate current and up and coming approaches in the field. See section details for theme or topic. This class will meet from 12-1pm on Thursdays.

Credit 1 unit.

Typical periods offered: Spring

BIOL 5001 Independent Study in Biology for the Master's in Biology Program

Research under the supervision of a faculty mentor. Can be repeated to complete a Master's Thesis which requires 6 total units of independent study. Must be enrolled in The Master's in Biology Program in the School of Arts and Sciences.

Credit 3 units.

Typical periods offered: Fall

BIOL 5002 Capstone Experience for the Master's in Biology Program

Students may use this course to expand on any 5xxx level Biology course by completing extra work approved by that course's instructor. The guidelines for this effort will be up to the course instructor but may include special writing assignments, literature reviews, or interviewing local scientists and or clinical researchers involved in related projects. Alternative options will be considered, such as attending a local symposium approved by the instructor and reporting on that experience. Must be enrolled in The Master's in Biology Program in the School of Arts and Sciences.

Credit 3 units.

Typical periods offered: Fall

BIOL 5004 Independent Research in Genetics

Credit 10 units.

Typical periods offered: Fall



BIOL 5005 Advances in Cellular & Molecular Biology

Will examine some of the fundamental principles of cellular processes at the molecular level. Among the major topics covered are nucleic acid chemistry, gene structure and organization in prokaryotes and eukaryotes, gene expression, and recombinant DNA and transgenic/knockout (including conditional knockout) mouse technology. The topic of the CRISPR/Cas system used for gene editing is also be included. In addition, the idea of genes and genomes will be discussed with an introduction to functional and comparative genomics. In particular, emphasis in the second half of the semester will be on the various modes of regulation of gene expression and protein synthesis, and some of the various methodologies utilized to address these topics. In addition, the concepts of siRNA, miRNA, and the phenomenon of RNA-interference will be covered with the topic of micro-RNA and disease, and the importance of these small non-coding RNA molecules, highlighted by presentation of material from the scientific literature. Also included will be a major publication showing how RNA interference can be used as a tool to unlock the secrets of human embryonic stem cells. A number of commonly used molecular biology and biochemical lab techniques will also be covered, in addition to more recent tools such as RNA seq that can be used to address global changes in transcriptional profiles.

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5010 Human Anatomy & Development

Study of the human body primarily by dissection; extensive use of X-rays and CT scans. Emphasis on functional and clinical aspects of anatomy.

Credit 6 units.

Typical periods offered: Fall

BIOL 5011 Biology of Mammals

Biology 4010/5010 is an introduction to the biology of mammals. In this course, students will gain familiarity with the diversity of mammals, as well as a deep understanding of their anatomy, physiology, behavior, ecology, biogeography and evolution. A weekly discussion/laboratory section will include examination of skeletal material from the department anatomy collection, providing the opportunity to see the diversity of mammals first-hand.

Credit 3 units.

Typical periods offered: Fall

BIOL 5023 How Plants Work: Physiology, Growth, and Metabolism

This course introduces students to the fundamentals of how plants grow, metabolize and respond to their environment. Topics to be covered include the conversion of light energy into chemical energy through photosynthesis and carbon fixation, nitrogen assimilation, water and mineral uptake and transport, source-sink relationships and long-distance transport of carbon and nitrogen, cell growth and expansion, hormone physiology and physiological responses to a changing environment. Biol 5023 is for graduate-level registration only.

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5026 Viruses and the Diseases They Cause

The goal of this course is to discuss different families of viruses that are important human pathogens. For each of these families of viruses we will discuss the following three aspects as it relates to their clinical significance. 1. The diseases that they cause. The clinical manifestations, the geographic extent of these infections, the consequences of these infections on the populations affected by the virus being discussed. 2. Mechanisms they use to evade host defense mechanisms. Each of these families of viruses have a unique set of factors that they produce that enable them to evade host responses.

We will discuss these factors and how they specifically target our responses to the infections they cause. 3. Current therapies used to treat these viral infections. This would include both drug therapies, immunizations and even environmental aspects that predispose a particular geographic region to infection by a specific class of viruses. Each class will involve both lecture and discussion of relevant publications that are associated with the topic being discussed that class. There will be two exams, a mid-term and a final that will not be cumulative.

Credit 3 units.

Typical periods offered: Fall

BIOL 5114 Neuroplasticity Wiring and Rewiring of the Brain

'Neuroplasticity: Wiring and Rewiring of the Brain' discusses the brain's remarkable ability to change, reorganize, and grow its neural networks. Our brains are constantly evolving; new and relevant connections are strengthened while irrelevant ones are eliminated. This phenomenon is known as neuroplasticity. This course examines how the brain reshapes itself at molecular, neural, and systemic levels. It explores both endogenous (internal) and exogenous (external) factors involved in this process, highlighting the significant contributions of this emerging field of neuroscience. Students learn how to rewire the brain more effectively to enhance its plasticity, which can improve cognitive capacity, enhance learning, prevent memory loss, and promote overall brain health. Understanding of this fascinating area of neuroscience is being applied in various fields, including mental wellbeing and behavioral health, neuroprotection against age-related declines, artificial intelligence, and medicine. Students also explore how the systematic reinforcement of sensory environments, healthy sensory inputs, and brain exercises can boost brain capacity by creating new circuits. Conversely, toxic living conditions and unhealthy lifestyles can negatively impact brain function. Additionally, recent research findings, journal articles, and publications in this emerging area of neuroscience will be reviewed.

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5140 Plant Diversity and Evolution

This course is an in-depth exploration of the diversity and evolution of vascular plants. The course focuses mainly on flowering plants because of their dominant role on our planet, but lycophytes, ferns, and gymnosperms are studied as well. A phylogeny of vascular plants provides the framework for their evolution and diversification. Related subjects, including phylogenetics, biogeography, herbaria, nomenclature, species concepts, and pollination biology are also presented. The weekly lectures/discussions and (three hour) lab function in tandem and it is the responsibility for the student to integrate information from the lectures with the abundant materials presented in lab. The lecture will take place on main campus at WashU, and the lab sessions will make use the abundant and exceptional living and preserved materials at the Missouri Botanical Garden. The intended audience is advanced undergraduates and graduate students. Prerequisite: Bio 2970 or Permission of Instructor. Small Class. Credit.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

BIOL 5150 Environmental Medicine

Environmental Medicine explores the interactions between the environment and human health, focusing on the role of the environment in causing or mediating disease. Environmental hazards are examined in terms of toxicology, epidemiology, exposure assessment, risk assessment, individual susceptibility, adaptation/maladaptation, and the total load concept. Students enrolled in the 500-level must also complete a term paper and oral presentation.

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5171 Medical Immunology

An introduction to basic concepts in immunology and immunopathology. Lectures focus on antigen-antibody interactions, immunoglobulin structure and genetics, the cellular basis of the immune response and immune regulation, T cell effector mechanisms, the inflammatory response, complement, the positive and negative roles of hypersensitivity, and immune deficiency. Prerequisite, some background in biochemistry and genetics helpful. Restricted to medical students only except in unusual circumstances, with permission of coursemaster. Offered during the first half of the second medical semester. Three-four lecture hours a week, two 2-hour lab periods, four 1-hour clinical discussion groups.

Credit 3 units.

Typical periods offered: Spring

BIOL 5181 Population Genetics

An introduction to the basic principles of population and ecological genetics. Mechanisms of microevolutionary processes; integrated ecological and genetic approach to study the adaptive nature of the evolutionary process.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

BIOL 5194 Community Ecology

Community ecology is an interdisciplinary field that bridges concepts in biodiversity science, biogeography, evolution and conservation. This course provides an introduction to the study of pattern and process in ecological communities with an emphasis on theoretical, statistical and experimental approaches. Topics include: ecological and evolutionary processes that create and maintain patterns of biodiversity; biodiversity and ecosystem function; island biogeography, metacommunity dynamics, niche and neutral theory; species interactions (competition, predation, food webs), species coexistence and environmental change. The class format includes lectures, discussions, and computer labs focused on analysis, modeling and presentation of ecological data using the statistical program R.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

BIOL 5195 Disease Ecology

Disease ecology is an interdisciplinary field that bridges concepts from fields including population ecology, community ecology, landscape ecology, and evolutionary biology. This course provides an introduction to the study of infectious diseases with an emphasis on theoretical, experimental, and quantitative approaches. The course will integrate studies of infectious diseases from across disciplines including human epidemiology, veterinary medicine, wildlife epidemiology, plant pathology, parasitology, and ecology.

Credit 4 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Spring

BIOL 5220 Practical Bioinformatics

Techniques and perspectives to biologists that are new to computational thinking. Students will learn how to design research workflows, decompose complex problems into simpler solvable units, and apply scientific computing principles to research. In addition, students will practice foundational computing skills, such as how to use the UNIX operating system on research clusters, write custom analysis programs with shell scripts and with Python, and summarize and visualize analysis output. The laboratory exercises build on one

another, culminating in the construction of a bioinformatics pipeline that can process and analyze molecular data. Students will apply their newly learned computational skills and use their pipeline to analyze virus sequence evolution and explore evolutionary models.

Credit 4 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

BIOL 5241 Immunology

Basic molecular and cellular aspects of the vertebrate immune system with emphasis upon the interrelationships of non-specific and specific host defense against disease, the nature of immunological specificity and its underlying molecular biology. Includes complement systems, immunochemistry, the nature of cellular activation and effector generation, immunodeficiency, tolerance, tissue transplantation, hypersensitivity, immune regulation and specific diseases illustrative of the successes and failures of the immune system. Case studies will be presented by the students on an array of immune system disease.

Credit 4 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

BIOL 5244 Advances in Immunology

The goal of this course is to provide students with an overview of the mammalian immune system. 1. We will begin with a general overview of the immune system. 2. We will then discuss the specific cells and factors that constitute the immune system. 3. We will describe how the immune system detects and defends us against attack by pathogenic microbes. 4. We will describe how foreign tissues are recognized, rejected and what therapies for preventing that from taking place. 5. We will discuss aberrant immune responses that would result in under-responsiveness or over-responsiveness. 6. We will finally cover how the immune system responds to malignant tumor growth and how those cancers evade detection and destruction as well as what therapies are available to aid the immune system to attack the cancer. The class will run for 2 hours and fifty minutes and consist of a 75 to 120 minute lecture that is followed by student presented discussions of relevant publications to that topic being discussed that lecture. This will be for those students who select that option for their individual responsibility (see below). In the event that there are no student presentations scheduled for a particular class period, the instructor will present an article associated with that lectures topic.

Credit 3 units.

Typical periods offered: Fall

BIOL 5265 The Science of Cats

This capstone-style course will give students the opportunity to apply what they've learned in topics as diverse as speciation, molecular evolution, community ecology and animal behavior to investigate and analyze questions concerning the biology of a species near and dear to the hearts of many, *Felis catus*, the domestic cat. Over the last several decades, scientists have studied cats in the same way they have studied lizards, birds, flies and many other species. This cat research allows questions of broad scientific interest to be addressed using cutting-edge methods, including (but not limited to): what is a species? How do new species arise? How do we determine when, where and from what species the cat evolved? How do we determine if a trait (e.g., response to catnip) evolved as an adaptation driven by natural selection? How do we determine the impact of an invasive species on local ecosystems? How does domestication occur and is the cat actually domesticated? Is the behavior of domestic cats a legacy of their evolutionary past or does it represent adaptation to living with humans? What role, if any, can genetic engineering play in decreasing feral cat populations and developing new breeds of cats with desirable traits.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Spring

BIOL 5270 Problem Based Learning in Biomedical Sciences

Groups of 5-8 students are presented with medical case studies that are then researched and discussed under faculty guidance. Students take major responsibility for their own learning within their team. A biology or science background is required.

Credit 3 units.

Typical periods offered: Spring

BIOL 5309 Biology of Aging

This course provides concepts and examples of the biology of aging. We discuss current literature with emphasis on theoretical causes of aging and the practical implications of these theories. Major topics include the biochemical processes of aging, cell cycle senescence, age-related organ dysfunction, interventions to alter the aging process, and medical illnesses associated with aging (e.g., Alzheimer's disease, the dementias). We also study animal and human models for extending longevity, and current approaches for dealing with the aging process are included.

Credit 3 units. A&S IQ: NSM BU: SCI

Typical periods offered: Fall

BIOL 5337 Conservation Biology & Biodiversity

In this course we will examine biodiversity and discuss its value, threats to it, and solutions for conservation. We will explore and discuss real-world examples of issues involving threats to biodiversity, ecological economics and nature conservation, habitat degradation and loss, habitat fragmentation, overexploitation, species invasions, biological impacts of climate change, conservation genetics, species, landscape and ecosystem approaches to conservation, and restoration of damaged ecosystems. Students enrolled in the 5000-level must also complete a term paper and oral presentation. This course is hybrid, meeting once per week for 1.5 hours, and additional work will be completed for 1.5 hours each week asynchronously as assigned by the instructor. Prerequisites: General Biology I or permission of instructor

Credit 3 units.

Typical periods offered: Fall

BIOL 5343 Epigenetics

Introductory course in epigenetics - the layer of chemical information that sits on top of the genome - that switch genes 'on' or 'off'. Will introduce how the epigenome, in collaboration with the genome, controls versatile biological processes and cell fates. Will also cover the latest advances of how humans can control their own epigenetic destiny by lifestyle, diet, and other environmental factors. Learning Objectives: Recognize and summarize the difference between genetics and epigenetics, Apply the basic knowledge of epigenetic mechanism and illustrate how their misregulations cause abnormal development and diseases, Critically review and discuss epigenetic literature, Design epigenetic experiments and interpret the results of those experiments, Graduate student specific: Demonstrate the ability to clearly communicate epigenetic research in both oral and written formats.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

BIOL 5360 Neural Basis of Behavior

This course provides an overview of how the nervous system works from a biological perspective. We will begin by studying how nerve cells function, focusing on how they transmit signals and communicate with one another through specialized connections called synapses. We will further examine the anatomy of the nervous system to discover how nerve cells are organized into circuits and how these circuits develop. We will investigate how the specialized properties of our

nerve cells allow us to interact with our environment through an in-depth study of our motor and sensory systems. In our 500 level course, we will apply our learning objectives to a scientific research presentation using peer reviewed literature.

Credit 3 units.

Typical periods offered: Fall

BIOL 5438 Principles of Virology

The goal of this course is to provide students with an overview of the biology of viruses. We will emphasize the nature of viruses on a molecular level. In so doing we will: 1.We will discuss how viruses gain access to cells, replicate themselves, and then leave the cell to infect new cells. 2.We will also describe differences and similarities that the different categories of viruses have. 3.We will discuss how viruses participate in host-virus interaction with emphasis on what immune responses are generated and how viruses attempt to avoid those responses. 4.We will also specifically discuss both HIV and tumorigenic viruses. 5.Finally we will discuss vaccination and drug therapies that have been developed to defeat viruses. Each class will involve both lecture and discussion of relevant publications to that topic. There will be two exams, a mid-term and a final exam. Keep in mind that the course is designed so that each class, to one degree or another, builds on the previous material and so it is important to fully understand what we have already covered. 5438 is for MA in Biology students. Undergraduates and PBPM students should register for 4438. This course does not count toward the undergraduate biology major.

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5479 Fundamentals of Parasitology

This course covers a variety of clinically relevant parasitic organisms and their importance to human disease. During this course we will: 1.The Semester is divided into two halves. a.The first half will discuss clinically relevant worm parasites. b.The second half will discuss protozoan parasites that cause multiple types of diseases. 2.For each of the parasitic classes discussed we will present general characteristics of the parasite as follows: a.The lifecycle of the particular parasite. b.The clinical disease profile. c.Interactions of parasites with the host immune response both in terms of mechanisms whereby the host resists infections by these organisms and also how these parasites circumvent the host's ability to eliminate them. d.Because so much of the clinical importance of parasites has to do with this interaction, we will also cover general aspects of the workings of the immune system. There will be an emphasis on the nature of the host-parasite interaction on a molecular level. e.Finally we will discuss what available therapies are available and what potential therapies are being developed. 3.These lectures will include discussions of recent literature concerning parasites and their interactions with the host. 5479 is for MA in Biology students. Undergraduates should register for 4479. This course does not count toward the undergraduate biology major.

Credit 3 units.

Typical periods offered: Spring

BIOL 5510 ITVS Advanced Techniques

The Advanced Methods in Vision Science course provides ITVS students the opportunity to learn about advanced methods utilized in studies of the visual systems from the experts who perform the studies. These methods emerged from different disciplines (molecular biology, imaging, electrophysiology, machine learning), but provide critical details for understanding how the visual systems focuses and processes light stimuli. The course has two components. 1) A series of 90-minute structured discussions of advanced methods via foundational papers and recent applications of these methods. 2) A choice of two hands-on experiences with these methods in the instructor laboratories. We open the discussion section of the course

to all students, postdocs, and faculty members (in this order) but cap the class size at 12 participants to facilitate interactions. Hands-on experiences are restricted to ITVS students. For hands-on experiences, each ITVS student chooses two techniques and spends a day in the laboratory of the respective instructor to gain practical experience with the experiments and analysis pipelines and discuss pitfalls and applications of the methods in detail. Through these components, the Advanced Methods in Vision Science course tries to accomplish three goals: 1) enable students to critically assess the literature through an understanding of strengths and limitations of advanced methods, 2) help students plan experiments involving these methods, and 3) facilitate collaborations with experts in the field that could enhance the science of the ITVS students.

Credit 3 units.

Typical periods offered: Spring

BIOL 5515 General Biochemistry

Biochemistry involves the study of the molecular composition of living cells, the organization of biological molecules within the cell, and the structure and function of these biological molecules. The biological macromolecules which this course focuses on are proteins, polysaccharides, fats, and nucleic acids, including the monomeric units of these macromolecules. Other topics that will be discussed include bioenergetics, enzyme kinetics, metabolism, and the storage and maintenance of genetic information. Students choose a clinically-relevant biochemical disorder for further study and near the end of the semester prepare a presentation to the class on its cellular, molecular, and biochemical etiology, epidemiology, pathology, diagnosis, and current/future treatment options. Masters students must compose a review article to complement the oral presentation, focusing on an unresolved research question in the disease field of their choice. Exams, which attendance is required, will be administered on Monday, June 15; Friday, June 26; and Friday, July 10.

Credit 4 units.

Typical periods offered: Summer

BIOL 5523 Laboratory in Protein Analysis, Proteomics, and Protein Structure

This laboratory class is structured around a biochemical question of relevance to the research community. Students will design and generate mutants of an enzyme to test hypotheses about its mechanism and kinetics. The course consists of three sections: molecular biology, protein biochemistry, and structural biology. In the first section, students learn the principles of DNA manipulation, cloning, mutagenesis, and DNA sequencing and apply them to design and generate mutant constructs of the protein of interest. In the second section, students learn the principles of heterologous expression of proteins in bacteria, protein purification, SDS-PAGE, protein quantification, and kinetic analysis of enzyme activity. These methods are applied to test the students' hypotheses by assaying the activity of their mutant enzymes. The final section of the course introduces students to concepts of structural biology including protein crystallization, x-ray diffraction, and computer modeling of protein structures. Fulfills the upper-level laboratory requirement for the Biology major. Prerequisites: Chem 262 and either Bio 451 or Bio 4810/Chem 481. Suggested to be taken concurrently with Bio4820/Chem482. Enrollment limit is set at zero, and students are enrolled from the waitlist. Graduating seniors who need an upper-level laboratory to complete requirements of a biology major program have priority.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

BIOL 5573 Regenerative and Stem Cell Biology

Regeneration is a very complex, post-embryonic developmental phenomenon, where organisms replace lost body parts and organs upon injury. However, we still know very little about why some animals are so successful at regenerating whole bodies and organs, while other animals (like humans) have limited or no capacity to do so. This course covers regeneration and stem cell biology across different levels of biological organization (e.g. cell, organ, limb regeneration.) and across the animal phylogeny.

Credit 3 units.

Typical periods offered: Fall

BIOL 5582 Macroevolution

An advanced introduction to the study of macroevolutionary patterns and processes with emphasis on the systematic methodology employed. Topics: theories of classification, phylogenetic reconstruction, testing of historical hypotheses, hierarchy theory, adaptation, extinction, speciation, developmental mechanisms of organismal evolution, biogeography. Prerequisite: permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

BIOL 5583 Molecular Evolution

A rigorous introduction to the study of evolution at the molecular level. Topics include the origin, amount, distribution and significance of molecular genetic variation within species, and use of molecular data in systematics and in testing macroevolutionary hypotheses. (Biology Major Area)

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5584 Essentials of Biomedical Writing and Presenting

This course will provide the most fundamental techniques for effectively reviewing, writing and presenting scientific information. The goal of this course is to help students understand scientific communication better. They will become familiar with the structure of scientific papers, grants and presentations and will learn to critically evaluate each form of communication. Students will learn the characteristics of outstanding scientific writing and presenting, including academic style, coherence, clear data presentation and word choice through classroom exercises and mock presentations. Classes will consist of a lecture followed by a classroom exercise. Students will be graded on classroom exercises and writing assignments. 5584 is for MA in Biology students. Undergraduates and PBPM students should register for 4584. This class does not count toward the undergraduate biology major.

Credit 3 units.

Typical periods offered: Spring

BIOL 5623 Interdisciplinary Training in Vision Science - Translation in Vision Science

This course introduces students to the translation of basic science and pre-clinical research to the biopharma industry and/or clinics to benefit patients. The class will introduce how patient genetics can guide disease research in animal models and how patient tissue can be used to model disease progression/outcomes. Students will learn how results from these types of studies impact patient lives through the development of drug/treatment candidates and/or clinical trials. Students will be connected to clinicians to witness the profound impact of blinding diseases on patient lives and how scientific advances in disease research can motivate philanthropic funding of subsequent research.

Credit 1 unit.

Typical periods offered: Spring

BIOL 5624 Applied Bioinformatics for Genomics I

This course is for those who want to 1) learn fundamental skills for computational genomics, 2) use this information to improve and expedite their research and 3) improve their knowledge by hearing from experts in specific technologies and practices. The course meets once a week throughout the Fall semester, covering a variety of concepts, best practices, and technologies in focused short lectures coupled with hands-on exercises.

Credit 1 unit.

Typical periods offered: Fall

BIOL 5625 Applied Bioinformatics for Genomics II

This course is designed to follow Applied Bioinformatics for Genomics I, in the fall semester. The fall semester course is not required as a prerequisite. Students who need fundamental skills for computational genomics can access the fall semester lectures online. This course is for those who want to 1) expand fundamentals skills for computational genomics, 2) use this information to improve and expedite their research and 3) improve their knowledge by hearing from experts in specific technologies and practices. The course meets once a week throughout the Spring semester, covering a variety of best practices methods, technology, and knowledge in focused short lectures coupled with hands-on exercises.

Credit 1 unit.

Typical periods offered: Spring

BIOL 5715 Basic Cancer Biology

More than two thirds of all people know someone who has cancer. This course provides students with a more extensive understanding of what cancer is and how it affects the human body. We will discuss the history of cancer research, the many different types of human cancers, and basic chemotherapeutics. The topics will be presented in a basic scientific nature, with an emphasis on gaining a broad understanding of the subjects.

Credit 3 units. A&S IQ: NSM BU: SCI

Typical periods offered: Fall

BIOL 5716 Advanced Cancer Biology

This advanced course provides students with a more in-depth understanding of the molecular mechanisms of cancer. We will discuss tumor suppressors, oncogenes, signaling pathways, animal models in cancer, and novel targeted cancer therapies being developed by biotechnology and pharmaceutical companies. Prerequisite: Biol 144, Biol 1440 or Biol 4715. This course is an IDENT for L41 4716. Undergrads should register for 4716, grad students should register for 5716.

Credit 3 units.

Typical periods offered: Spring

BIOL 5722 The Biology of Membranes

Biomembrane composition and structures determine its functions. This class examines membrane components, their organization into general cell membrane structures / domains, and functions. You will appreciate the various roles membrane lipids play in constructing membranes and in signal transduction. Cholesterol is an important membrane lipid that is linked to biomembranes structurally and functionally. Misregulation of transport or trafficking of lipids, including cholesterol, contributes to many human diseases. You will learn historical background and recent advances in membrane biology, following the path taken by cholesterol and other lipids. You will also learn how to critically evaluate primary research and literature reviews on membrane biology.

Credit 3 units.

Typical periods offered: Fall

BIOL 5772 Behavioral Ecology

This course examines animal behavior from an evolutionary perspective and explores the relationships between animal behavior, ecology, and evolution. Topics include mating systems, sexual selection, parental care, kin selection, and cooperation. There is a strong active - learning component.

Credit 4 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

BIOL 5800 Seminar in Population Biology

This weekly seminar, covering different topics each semester, should be taken by graduate students in the program.

Credit 3 units.

Typical periods offered: Fall, Spring

BIOL 5862 Seminar On Professional Development for Graduate Students in Ecology, Evolution & Population Biology

This is a weekly discussion seminar course in which advanced graduate students and postdocs in STEM will discuss the practices of scientific teaching and basic professional development skills. Topics covered will include scientific teaching, active learning, assessment driven instruction, creation inclusive classrooms, preparing for job interviews, preparing grant proposals, and balancing family and work. There will be several panel discussions with invited speakers on a range of potential career options to STEM PhDs. Students will prepare or revise their professional portfolio materials over the course of the semester. The course is open to all DBBS graduate students and is required for GAANN fellows. Prerequisite: Graduate student status in the DBBS or permission of instructor.

Credit 1 unit.

Typical periods offered: Spring

BIOL 5906 Research

Enrolled students will meet in-person with faculty for a minimum of 1 hour per week.

Credit 12 units.

Typical periods offered: Fall, Spring, Summer

BIOL 5936 Seminars in Ecology and Evolution

At least once a week, there are seminars on the WashU campus from researchers in ecology or evolution. These seminars are given by local people, by visitors, and sometimes by job candidates. The point of these seminars is to learn about exciting research. What questions are they asking? What are they discovering? What new scientific stories can we hear about ecology or evolution? What makes up these fields anyway? These seminars are often followed by receptions, which offer opportunities to get to know each other better and to ask questions. This course invites undergraduates to listen to these presentations and write about them. After all, this is a major part of the ideas climate at WashU. It would be a great idea for students to get in the habit of going to these seminars, whether they are taking this course or not. In addition to attending these seminars, students in this course will meet three times during the semester; times will be determined based on the availability of enrolled students. Most seminars are at 4:00 pm on Thursdays, although some take place on other days.

Credit 1 unit.

Typical periods offered: Spring

BIOL 5937 Journal Club On Current Topics in Microbiology and Infectious Disease

We read, analyze, and discuss recent primary literature drawn from the field of microbiology. These papers represent the seven broad "Topics" of microbiology, as defined by the American Society for Microbiology (<https://asm.org/>):

- Antimicrobial Agents & Resistance
- Applied & Environmental Microbiology
- Clinical & Public Health Microbiology
- Clinical Infections & Vaccines
- Ecology, Evolution, & Biodiversity
- Host-Microbe Biology
- Molecular Biology & Physiology

Each week, we discuss a single primary research paper, with special emphasis placed on analyzing and interpreting data and figures. Some assignments include supplementary videos or readings to provide the background knowledge required to understand a particular paper. At the conclusion of the semester, students should have achieved the following objectives: 1) Gain insight into the breadth of research performed within the field of microbiology; and 2) Develop skills required to comprehend and to analyze primary research literature. Credit 1 unit.

Typical periods offered: Fall

BIOL 5980 Topics in Evolution, Ecology and Population Biology

This course will meet weekly to discuss ongoing research and future directions of the Evolution, Ecology, and Population Biology (EEPB) graduate program. A different EEPB faculty member will present each week. This course introduces new EEPB students to the diversity of research questions and approaches undertaken by laboratories in the EEPB program; it will also introduce new students to faculty and vice versa. The course will educate the students about the breadth of research in evolution, ecology, and behavior. It will also provide knowledge that students can use when choosing lab rotations and interdisciplinary exposure to enhance creativity in research.

Credit 1 unit.

Typical periods offered: Fall

BIOL 5992 Biodiversity Journal Club

Students in this journal club will meet weekly to discuss published research relevant to biodiversity science. Collectively, papers selected for discussion during any single semester will cover a broad range of topics in ecology, evolution, systematics and conservation biology (for examples, see: <http://mobot-diversity-jc.weebly.com/previous-semester.html>). Journal club attendees include students, postdocs, faculty and researches from Washington University, UM-St. Louis, St. Louis University, and Missouri Botanical Garden. Enrolled students will attend journal club every week and once per semester will choose a paper and lead the discussion; evaluations will be based on participation and performance.

Credit 1 unit.

Typical periods offered: Spring

BIOL 5993 Decision Neuroscience

This is an advanced, reading-intensive graduate course. We will meet once a week for 3 hrs and focus primarily on discussing the literature on decision making from various perspectives. Decision making is a central object of study in multiple disciplines including neuroscience, cognitive psychology, and economics. Within systems neuroscience, research in the past 20 years has developed in two main areas -

namely perceptual decisions and economic (value-based) decisions. Each week we will discuss a specific topic and/or research question. Discussion topics will originate from perceptual decisions or economic decisions, and often be relevant to both. Readings will include experimental papers and computational/theoretical papers. Every week, students are expected to read the assigned papers and to write a short comment before class. In class, we will discuss the papers and the weekly topic in a journal-club format. Participation of PhD students from different programs is encouraged, pending permission from the instructor. The goal of the class is to bring graduate students from different disciplines up-to-date on the current debate(s) in decision neuroscience, and to inspire and support their future research. Credit 3 units.

Typical periods offered: Fall

BIOL 6201 Computational Statistical Genetics

This course covers the theory and application of both classical and advanced algorithms for estimating parameters and testing genomic hypotheses connecting genotype to phenotype. Students learn the key methods by writing their own program to do (simplified) linkage analysis in pedigrees for a simulated dataset provided by the coursemaster. Topics covered in the course include Maximum Likelihood theory for pedigrees and unrelated individuals, Maximization routines such as Newton-Raphson and the E-M Algorithm, Path analysis, Variance components, Mixed model algorithms, the Elston-Stewart and Lander-Green Algorithms, Simulated Annealing and the Metropolis Hastings algorithm, Bayesian and MCMC methods, Hidden Markov Models, Coalescent Theory, Haplotyping Algorithms, Genetic Imputation Algorithms, Permutation/Randomization Tests, classification and Data Mining Algorithms, Population Stratification and Admixture Mapping Methods, Loss of Heterozygosity models, Gene Networks, Copy Number Variation methods, Multiple comparisons corrections and Power and Monte-carlo simulation experiments. Course not available to auditors. Prerequisite: M21-560 Biostatistics I and M21-570 Biostatistics II or, with permission of the Course Master, the equivalents. Credit 3 units.

Typical periods offered: Spring

BIOL 8830 Master's Continuing Student Status

This course is for continuing students in the Biology Master's program. Credit 0 units.

Typical periods offered: Fall, Summer

BIOL 8840 Doctoral Continuing Student Status

This course is for continuing students in the Biology Doctoral program. Credit 0 units.

Typical periods offered: Summer

Biology, MA (Part-Time)

Please note that this degree program is no longer accepting new students and will conclude in Spring 2027.

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.



For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** 3 years maximum (Students enrolled in the Master of Arts in Biology program have until May 2027 to complete all degree requirements.)
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- Students must obtain a minimum grade of B– in graduate courses for them to count toward the degree.

Master of Arts in Biology

Students seeking the Master of Arts in Biology must satisfactorily complete 30 units of graduate courses in the biological sciences, including a required capstone experience, which occurs after they have completed 21 units in the program and is chosen from the following options:

1. Complete a capstone course that is approved by the department (MA without Thesis, BIOL 5002 Capstone Experience for the Master's in Biology Program)
2. Complete a 3-unit independent study (MA without Thesis, BIOL 5001 Independent Study in Biology for the Master's in Biology Program)
3. Complete a 6-unit master's thesis: Students with appropriate backgrounds, interests, and academic qualifications may, with authorization, write a master's thesis based on original library or laboratory research. (MA with Thesis, 6 units of BIOL 5001 Independent Study in Biology for the Master's in Biology Program)

Note: The above options cannot count as the capstone experience if they occur before a student has completed 21 units toward the Master of Arts in Biology.

Credit Transfer

A maximum of 3 units of related and comparable graduate-level course work may be transferred from another university or from a related graduate program at Washington University with the approval of the program director. These must be graduate-level units not used to fulfill undergraduate degree or post-baccalaureate program requirements. Transfer credit may be granted only for authorized courses for which the student received a grade of B or higher.

Please note that the Master of Arts in Biology degree is a terminal graduate degree awarded on the basis of the completion of courses rather than research. Except in rare cases, it is not intended as preparation for a PhD degree. No more than 6 of the 30 credits required for this program may be earned in research courses. Those students interested in graduate research or in earning a PhD should apply to the PhD programs offered by Washington University's Division of Biology and Biomedical Sciences.

Thesis Requirements/Details

Students with appropriate backgrounds, interests, and academic qualifications may, with authorization, write a master's thesis based on original library or laboratory research.

A master's thesis in biology is a form of independent study. The purpose of a master's thesis is to provide a capstone or final project in which the student can use the knowledge and methodology obtained in previous courses for the investigation of some problem in depth. Master's theses involve 6 units of independent study, generally taken in two consecutive semesters (i.e., fall and spring). During the first semester, the student carries out research; during the second semester, the student writes up the project. A thesis project is expected to encompass a larger range of issues or a more in-depth investigation than an individual independent study. Theses can be anywhere from 40 to 50 pages minimum, depending on the topic and type of thesis.

To carry out a thesis project, the student must secure an advisor with whom to work; define the project; fill out the necessary forms to be signed by the advisor, student, and departmental graduate program coordinator; and successfully complete the project with advisor and departmental graduate program coordinator approval.

Required Courses

Students must complete 30 units of graduate course work in Arts & Sciences, including a required capstone experience. These courses must be 5000-level Arts & Sciences Biology courses to fulfill the degree requirements.

Contact: Philip Osdoby
Email: osdoby@wustl.edu

Ecology & Evolutionary Biology, PhD

Degree Requirements

The graduate program in Ecology & Evolutionary Biology (EEB) explores the ecological and evolutionary processes that create and maintain biodiversity. The program combines field studies with biogeographic, computational, molecular, statistical, and theoretical approaches to gain an understanding of the ecology, evolution, and conservation of populations, communities, and ecosystems. Students' research opportunities are enriched by the University's partnerships with local institutions. Tyson Research Center, the environmental field station of Washington University in St. Louis, provides opportunities for field studies in local aquatic and terrestrial ecosystems. The Missouri Botanical Garden conducts systematic studies of plant diversity worldwide. The Saint Louis Zoo facilitates studies of the conservation biology of animals. Our faculty and students also conduct studies on a global scale at field sites in Africa, Asia, and South America.

Research in the program cuts across scales of biological organization, from genes to ecosystems. Study systems include a variety of model organisms (*Anolis*, *Dictyostelium*, *Drosophila*, *Plantago*, *Trifolium*), agricultural and domesticated species, human populations, and various natural plant and animal populations and communities spanning temperate and tropical ecosystems.

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
 - In addition to completing all required coursework outlined below, students enroll in the necessary number of units of BIOL 5906 Research to reach 9 units of coursework in each of their first four semesters to meet the 36-unit program requirement.
- **Degree Length:** Five years
 - Students are expected to maintain satisfactory academic progress in accordance with academic milestones. Students entering their fifth year in the program will receive a warning letter in regard to reaching their stated degree length.

- **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- Continued support is guaranteed for the duration of the student's graduate studies, provided that the student maintains satisfactory progress toward completion of the degree.
- **Grade Requirement:** A minimum grade of B– in all required core courses with a minimum overall GPA of 3.0

Required Courses

Students must take at least one course from each program course group:

Group 1 Courses

- BIOL 5194 Community Ecology
- BIOL 5195 Disease Ecology

Group 2 Courses

- BIOL 5582 Macroevolution
- BIOL 5181 Population Genetics
- BIOL 5583 Molecular Evolution
- BIOL 5772 Behavioral Ecology

Group 3 Courses

- Group 1 courses: BIOL 5194 Community Ecology, BIOL 5195 Disease Ecology
- Group 2 courses: BIOL 5181 Population Genetics, BIOL 5582 Macroevolution, BIOL 5583 Molecular Evolution, BIOL 5772 Behavioral Ecology
- BIOL 5220 Practical Bioinformatics
- BBS 5488 Genomics
- BBS 5491 Advanced Genetics
- Other relevant courses subject to approval by the EEB Director of Graduate Studies

Note: Courses taken to fulfill the Group 1 and Group 2 requirements cannot be used to fulfill the Group 3 requirement.

Additional Requirements

- BIOL 5980 Topics in Evolution, Ecology and Population Biology
- Four semesters of BIOL 5800 Seminar in Population Biology
- BIOL 5906 Research as needed to reach 9 units/semester in each of the first four semesters

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

PhD Qualification in EEB: Oral Examination Requirement

An oral qualifying examination is required of all students, and it is to be taken some time between February and April of the second year of graduate study. The examination committee will consist of three EEB faculty members, with the stipulation that the thesis advisor cannot serve on the committee. Two of those examiners will come from a standing committee (that rotates every year) in order to ensure consistency among exams and includes faculty spanning expertise in ecology and evolutionary biology. The student, in consultation with the advisor, will choose a third examiner from the EEB program, but not on the standing committee. The qualifying exam is not combined with the thesis proposal defense, which comes at a later date.

The purpose of the EEB qualifying exam is to test a student's knowledge in the two core areas of the program: ecology and evolutionary biology. To focus the discussion/examination, the student will choose three papers that share a central theme, and which will serve as the core of the examination. One possible set of papers would include a theoretical paper, a review paper, and a paper illustrating empirical research on the topic. However, through the course of the examination, the discussions/questions will broaden to relate the topics of the papers to general principles of ecology and evolutionary biology. Students should prepare by reviewing their knowledge in these fields, using courses in these areas as a guide. To avoid situations in which students do not choose an appropriate topic or papers, students must fill out a qualifying exam form. The form includes a short description of the topic, the papers, and how they fit together. The program coordinator will send your topic to the exam chair for approval.

Successful completion of the Group 1, Group 2, and Group 3 courses (listed above) is required as a demonstration of mastery of the basics of the field rather than a written exam.

Students are required to complete/pass their qualifying exam by April 30 of Year 2. Following the successful completion of the qualifying exam, students will identify and finalize their committee and complete their thesis proposal by December 15 of Year 3.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Doctoral candidacy in the EEB program is defined as the time when a student successfully completes their required coursework and Qualifying Examination. Students will advance to candidacy no later than the end of the Spring semester of Year 2. Students will complete their required courses by the end of the Spring semester of Year 2 and complete their Qualifying Examination no later than April 30 of Year 2.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

Mentored Teaching Experience Requirement

Students are required to complete one Mentored Teaching Experience (MTE) in the fall or spring semester of Year 2, for a total of 10 Mentored Experience Requirement (MER) units. Students must enroll in ASGS 8010 MTE - Assistant in Instruction Experience during the semester in which they complete the MTE. 10 MER units are equivalent to an average of 10 hours per week of engagement.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.

2. All other committee members must be active in research/ scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree in Lieu of a PhD

The EEB program awards a Master of Arts (MA) degree as an exit mechanism for students who, for any number of reasons, are unable to continue in the PhD program. To receive a master's degree in lieu of a PhD, students must complete the following requirements:

- Complete a minimum of 36 semester units of graduate studies.
- Complete required coursework, including one Group 1 course, one Group 2 course, one Group 3 course, BIOL 5980 Topics in Evolution, Ecology and Population Biology (one semester), BIOL 5800 Seminar in Population Biology (four semesters), and BIOL 5906 Research (as needed).
- Pass the Qualifying Examination.

No thesis is required.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as *MERs*.

Mentored Experience Requirements (MERs)

Students are required to complete one Mentored Teaching Experience (MTE) in the fall or spring semester of Year 2, for a total of 10 Mentored Experience Requirement (MER) units. Students must enroll in ASGS 8010 MTE - Assistant in Instruction Experience during the semester in which they complete the MTE. 10 MER units are equivalent to an average of 10 hours per week of engagement.

Philosophy of Teaching

Effective communication of information and concepts is a critical skill for biomedical research scientists. Although much of the teaching that scientists engage in is through one-on-one interactions with individuals in the laboratory, all scientists must have fundamental instruction in and experience with pedagogy principles, be able to deliver effective lectures to a wide audience, and be prepared to teach courses to undergraduate and graduate students. These represent the goals of the required Mentored Teaching Experience (MTE).

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Prior to beginning their MTE and typically during their second graduate year, students will be required to complete the Graduate Student Teaching Orientation and two additional teaching workshops offered by the Center for Teaching and Learning. Students will meet with assigned course director(s) prior to the start of the semester and complete a Mentoring Plan Form. Upon completing the MTE, the course director(s) will complete an MTE Evaluation Form.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students will serve as mentored AIs in courses approved by the Department of Biology and EEB Director of Graduate Studies. Units for a given course will be determined ahead of the assignment. A unit is equivalent to approximately one hour per week, so 10 units would involve ten hours of support (on average per week) for a course. The PhD student is formally listed as instructional support in the course listings and receives mentorship from the faculty member in best practices for classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. The mentored teaching training must incorporate at least one of the following activities: delivering lectures, leading lab activities or discussion groups, or conducting review sessions for groups of students. Grading exams or papers, holding office hours, administrative tasks, one-on-one tutoring, and so on may also be components of the assistantship and should be counted in the 10 units; however, these activities are not sufficient to meet the teaching training requirement. In general, AI assignments connect to undergraduate or lower-level graduate courses that the AI has taken previously. Students must enroll in ASGS 8010 MTE - Assistant in Instruction Experience during the semester(s) of their assigned MTEs.

The PhD student should receive regular feedback or evaluation from the mentor throughout the semester, a formal evaluation of teaching skills by the faculty at the end of the semester, and evaluation by the students at the end of the term as part of the course evaluation. If the course director determines that the PhD student's facility with essential teaching skills is unsatisfactory, the student will be counseled by the course director and the EEB Director of Graduate Studies and then will complete another MTE to attain mastery of these skills. Mentored teaching opportunities will be reviewed annually to ensure that the experiences meet the requirements established in this policy.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement completed during the second year

Pathway #1

ASGS 8010	Take one time

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement.

The MPE via the PIP is an optional activity. Students should engage in activities that enhance their professional development and record these activities at their thesis update meetings. For some students, an optional MPE is encouraged. The MPE can be fulfilled by a wide range of activities that advance the careers and professional development of PhD students. These could include, for example, opportunities in data science, biotech or pharmaceuticals (including at a startup or established company); science communication; science outreach; diversity, equity, and inclusion work; government or policy opportunities; consulting; or higher education administration.

Academic-track students may use the MPE to learn a new technique at a core facility or other lab. The duties and responsibilities of the MPE should be intellectually substantive and offer opportunities for the student to develop new skills and experiences. MPEs are distinct from internships in that they are considered part of the PhD training and are recorded on students' transcripts as courses. The scope of the MPE will be determined in conversation among the student and the site mentor, and the final plan must be approved by the principal investigator and the EEB Director of Graduate Studies. An average of 10 hours per week of MPE for a total of 150 to 180 hours is expected for each student.

Prior to the start of an MPE, the student and the site mentor will submit a plan to the Office of Graduate Studies, Arts & Sciences, detailing the scope of the project(s) to be undertaken and including a schedule and list of anticipated outcomes, and the mentor will provide an explicit commitment to the mentorship. This plan should be directly related to the goals developed via the student's recent completion of an Individual Development Plan, and students should enroll in ASGS 8120 MTE - Mentored Professional Experience. During the semester, the mentor and the mentee should meet frequently (i.e., weekly or biweekly) to track the progress of the student's work. At the end of the MPE, the mentor should provide a written assessment (approximately 500 words) of the overall learning experience for the student and the quality of the work completed, and the student will submit a self-reflection statement detailing the skills and experiences gained and how their career goals may (or may not) have changed. The mentor will register the completion of ASGS 8120 MTE - Mentored Professional Experience as Pass/No Pass.

Optional Pathway

ASGS 8120	Take one time

Chemistry

The Department of Chemistry offers a **PhD in Chemistry**, with research specializations available in biological, organic, inorganic, physical, and nuclear chemistry. Doctoral students often work at the interface of two or more subfields of chemistry. They may also work at the interface of different scientific disciplines. Lab assignments are, therefore, made according to each student's research project. Chemistry students may work in a lab outside the department or alongside students from other departments in a chemistry lab.

The department's research strengths in each subfield of chemistry are as follows:

- Biological: biophysical, bioorganic, bioinorganic, biochemistry
- Organic: synthetic, organometallic, bioorganic, physical organic, asymmetric catalysis
- Inorganic: coordination, organometallic, materials, bioinorganic, main group



- Physical: computational, laser spectroscopy, theoretical, magnetic resonance
- Interdisciplinary: biophysical, physical organic, materials
- Nuclear and radiochemistry: stability of nuclei, radioisotopes for medical studies

The department has an excellent record of placing its graduates in a wide variety of jobs: academic, industrial, governmental, legal, consulting, writing/editing, and entrepreneurial.

Contact: Barbara Tessmer
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Email: barbara22@wustl.edu
Website: <http://www.chemistry.wustl.edu/graduate>

Faculty

Chair

Jennifer Heemstra
Charles Allen Thomas Professor
PhD, University of Illinois, Urbana-Champaign

Director of Graduate Studies

Timothy Wenciewicz
Associate Professor
PhD, University of Notre Dame

Director of Undergraduate Studies

Richard Mabbs
Associate Professor
PhD, University of Nottingham (UK)

Department Faculty

Thomas Bakupog
Lecturer
PhD, University of Wyoming, Laramie

Jonathan Barnes
Associate Professor
PhD, Northwestern University

Cory Berkland
Joint Professor of Biomedical Engineering and Chemistry
PhD, University of Illinois

Vladimir B. Birman
Associate Professor
PhD, University of Chicago

John R. Bleeke
Professor Emeritus
PhD, Cornell University

William Buhro
George E. Pake Professor of Chemistry
Emeritus Department Chair
PhD, University of California, Los Angeles

Rong Chen
Senior Lecturer
PhD, University of Southern California

Maria de la Cruz
Senior Lecturer
PhD, University of Missouri, Saint Louis

Megan Daschbach
Teaching Professor
PhD, Washington University

Michael L. Gross
Professor
PhD, University of Minnesota

Richard W. Gross
Professor Emeritus
PhD, Washington University

Julie Hamdi
Senior Lecturer
PhD, University of California, Los Angeles

Sophia E. Hayes
Professor
PhD, University of California, Santa Barbara

John Heemstra
Senior Lecturer
PhD, University of Illinois, Urbana-Champaign

J. Dewey Holten
Professor Emeritus
PhD, University of Washington

Alfred Holtzer
Professor Emeritus
PhD, Harvard University

Alfred Hortmann
Professor Emeritus
PhD

Meredith Jackrel
Associate Professor
PhD, Yale University

Chenfeng Ke
Associate Professor
PhD, Nankai University (China)

Richard A. Loomis
Professor
PhD, University of Pennsylvania

Jia Luo
Senior Lecturer
PhD, Washington University

Kevin D. Moeller
Professor
PhD, University of California, Santa Barbara

Yusuke Okuno
Assistant Professor
PhD, University of Wisconsin at Madison

Gary J. Patti
Michael and Tana Powell Professor of Chemistry
PhD, Washington University

Jay Ponder
Professor
PhD, Harvard University

Kelly Powderly
Assistant Professor
PhD, Princeton University

Courtney Reichardt
Assistant Professor
PhD, Stanford University

Bryce Sadtler
Associate Professor
PhD, University of California, Berkeley

Demetrios Sarantites
Professor Emeritus
PhD, Massachusetts Institute of Technology

Lee G. Sobotka
Professor
PhD, University of California, Berkeley

William Spees
Senior Lecturer & Advanced Teaching Lab Director
PhD, Washington University

John-Stephen Taylor
Professor
PhD, Columbia University

Robert Wexler
Assistant Professor
PhD, University of Pennsylvania

Mark Wrighton
Professor and Chancellor Emeritus
James and Mary Wertsch Distinguished University Professor
PhD, California Institute of Technology

Yan Yu
Art Krieg Professor of Chemistry
PhD, University of Illinois at Urbana-Champaign

Zach Zheng
Assistant Professor
PhD, University of California, Berkeley

Degree Requirements

- Chemistry, PhD (p. 138)

Courses

CHEM 5000 Independent Work

Independent mentored work in Chemistry, such as (but not limited to) a detailed literature search and report on a topic of current interest. Credit 0.5-6 units.

Typical periods offered: Fall, Spring

CHEM 5001 Physical Science in 12 Problems

Exercises related to general chemistry, classical mechanics, quantum mechanics, statistical mechanics, thermodynamics, and kinetics, will be solved with numerical software. Each exercise will be accompanied by a lecture, a software template solving a problem and presenting a related take-home problem. The software will allow us to focus on, and treat in a transparent fashion, physical problems without the unworldly idealizations and contrivances found in textbooks. Prerequisites: Chem 106/112A and/or Physics 192/194, and prior or concurrent enrollment in either Chem 401 or Phys 217. The lectures will be in-person however a complete set of taped lectures will also be available. A remote help session will be scheduled at a mutually agreed to time. There are no quizzes, exams or a final.

Credit 1 unit. A&S IQ: NSM Art: NSM

CHEM 5010 Physical Chemistry I

Introduction to quantum chemistry with applications to electronic structure and elementary spectroscopy.

Credit 3 units. A&S IQ: NSM BU: SCI

Typical periods offered: Fall

CHEM 5011 Quantum Chemistry and Spectra

This course covers the development and application of quantum mechanics as applied to molecular structure and properties. Material to be discussed will include the fundamentals of quantum mechanics; representations; matrix formalisms; applications to model systems; perturbation theory; variational methods; many-electron wavefunctions; Hartree-Fock theory and post-Hartree Fock methods; density functional theory; additional topics and applications. Prereq: Chem 401.

Credit 3 units.

Typical periods offered: Fall

CHEM 5012 Advanced Quantum Chemistry

A study of the theory and methods of quantum mechanics, with applications to problems of chemical interest. Prerequisite, Chem 571 or permission of the instructor.

Credit 3 units.

CHEM 5014 Physical Properties of Quantum Nanostructures

This course will explore the physical properties of semiconductor nanomaterials with dimensions that are small enough to give rise to quantum-confinement effects. These effects strongly influence the electronic structures, absorption/emission behavior,

and charge-carrier dynamics within quantum wells, rods, wires, dots, and nanotubes. The course begins with an overview of the electronic structure of bulk semiconductors. The theoretical and experimental bases for quantum-confinement effects, which are of considerable fundamental and applied interest, will then be developed. A significant emphasis will be placed on the optical absorption and photoluminescence properties of semiconductor quantum nanostructures. Recent advances and observations as reported in the literature will be emphasized throughout the semester. Prerequisites: Chem 461/Chem 5610 and Chem 465/Chem 5620, or permission of the instructor. While the course is steered to graduate students in the Chemistry Department, Chemistry undergraduate students, graduate or undergraduate students in Physics, Electrical & Systems Engineering, Energy, Environmental & Chemical Engineering, Mechanical Engineering & Materials Science may also find this course valuable.

Credit 3 units.

Typical periods offered: Spring

CHEM 5020 Physical Chemistry II

This course presents an introduction to chemical thermodynamics, statistical mechanics, and transport phenomena.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Spring

CHEM 5021 Statistical Thermodynamics

Statistical mechanical methods will be used to characterize equilibrium and non-equilibrium thermodynamic systems. Computer programming assignments are given. An initial familiarity with ideal equilibrium systems will be assumed. Prerequisite Chem 401 or its equivalent or permission of the instructor.

Credit 3 units.

CHEM 5030 Chemical Kinetics

This lecture course will provide an introduction to the kinetics of chemical reactions for graduate and upper-level undergraduate science and engineering students. Bulk and molecular-level considerations will be discussed and provide a foundation for the understanding of chemical reaction mechanisms and the techniques used for their study. Students will gain an understanding of the importance and significance of the rate laws of reactions and in particular the reaction rate constant. Details of how the environment in which reactions occur (i.e., gas phase, solution phase, and surface reactions) and molecular structure are reflected in the rate constant will be discussed. Examples such as catalytic loss cycles in the atmosphere, enzyme catalysis, combustion systems, chain reactions, and explosions are presented in detail to illustrate how the fundamental principles of chemical kinetics can be applied to predict reaction rates, chemical reactivity, and the outcomes of particular processes. Prerequisites: Chem 106/112A and/or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

CHEM 5031 Molecular Reaction Dynamics

This course addresses the question, what happens in a chemical reaction? at the atomic/molecular level. Topics: Non-reactive and reactive molecular collisions, scattering and resonances, unimolecular and bimolecular reactions, potential energy surfaces, reaction rate calculations and models, state to state experiments and stereodynamics, energy transfer mechanisms, time resolved and frequency resolved dynamics, condensed phase dynamics, control of chemical reactions. Requirements: Chem 401 is a pre-requisite and prior completion or current registration in Chem 402 is required. However, equivalent courses will be considered at the discretion of the instructor.

Credit 3 units.

CHEM 5035 Nuclear and Radiochemistry Lab

Application of radiochemistry to problems in chemistry, physics, and nuclear medicine, with emphasis on particle detectors and experimental techniques. Prerequisites: 3 units of physical chemistry or quantum mechanics, or permission of instructor. Five hours of laboratory a week.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

CHEM 5036 Introduction to the Atomic Nucleus

Introduction to the interaction of radiation with matter, the production and decay of radioactive nuclides, the structure and properties of nuclei, and various applications of nuclear science (including nuclear power) are all presented. Lectures will be in-person but a complete set of taped lectures will also be available. A weekly, in-person or remote, help session will be scheduled at a mutually agreed to time. There will be about 6 timed quizzes, one midterm and one final, all of which must be taken in-person on mutually agreed dates.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

CHEM 5041 Molecular Spectroscopy

Cursory overview of electromagnetic radiation and its interaction with atoms and molecules. The course will assume a general knowledge of quantum chemistry, (i.e., Chem 401), although a quick review of eigenfunctions and states will be given. We will cover Rotational Spectroscopy, Vibrational Spectroscopy, Electronic Spectroscopy, and Time-resolved Spectroscopy. In so doing, attention will be focused on diatomic molecules, although some examples of polyatomics will be given with emphasis placed on how structure contributes to spectra. Emphasis is placed on creating intuition into spectroscopy, not necessarily the quantum-mechanical rigor or detailed calculations of molecular spectroscopy. Prerequisite, Chem 401 or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

CHEM 5042 Time-Dependent Quantum Mechanics & Spectroscopy

This graduate-level course lays the foundations of time-dependent quantum mechanics and applications to contemporary optical spectroscopies, particularly ultrafast techniques. Formal theoretical descriptions for nonlinear spectroscopic techniques including transient absorption, photon echo, and two-dimensional spectroscopies will be developed. Practical aspects of these experiments including modern laser systems, instrument design, data collection, data processing, and data analysis will also be discussed. Discussion of current literature in the field will be an important component of the course. Prerequisite courses: Chem 401 or permission from the instructor.

Credit 3 units.

CHEM 5050 Computational Problem Solving in the Chemical Sciences

Have you ever wondered how molecular interactions shape the world around us? Why do certain materials exhibit unique properties? How can we predict and manipulate chemical reactions at the atomic level? These are the mysteries at the heart of chemistry, where understanding the unseen world of atoms and molecules can unlock groundbreaking advances in science and technology. However, one needs specialized numerical methods and computational chemistry skills to explore these questions. This course is designed to bridge this gap. It provides a comprehensive introduction to the mathematical and computational skills necessary to model chemical phenomena at the atomic level. We start by building a strong foundation in mathematical representations of chemical problems, utilizing open-

source software tools for problem-solving, data interpretation, and visualization of materials and molecular structures. In the second part of the course, we delve into the fascinating world of atomic-level computer modeling. You'll learn various methodologies, such as Monte Carlo and molecular dynamics. We'll analyze static (thermodynamic and structural) and dynamic properties and their statistical errors. Don't worry if you're new to coding - we'll cover the basics of Python programming in the first few lectures, setting you up for success. By the end of this course, you will be proficient in using computational tools, understanding atomic interactions, and approaching chemical problems with a structured and strategic thought process. Join us to unlock the secrets of the molecular world and transform the way you see chemistry! Prerequisites: Chem 106/112A, Math 132, Physics 191, Chem 261.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

CHEM 5051 Methods of Biophysical Chemistry

The course provides an overview of key methodologies of contemporary biophysics and biophysical chemistry, covering: 1) Spectroscopic methods routinely used in biochemistry, including absorption, fluorescence, and circular dichroism; 2) Biophysical methods to study intra- and intermolecular protein interactions including solution-state NMR, FCS, and FRET; 3) Cutting-edge biophysical techniques to study transient protein-protein/ protein-nucleic acids interactions. A significant emphasis is placed on the principles of quantum mechanics, which underpin all the techniques discussed. The course begins with an introduction to the basics of quantum mechanics, laying a foundation for understanding the core physical principles that govern each method. Throughout the course, we will derive and analyze key formulae essential for comprehending and applying these advanced biophysical techniques effectively.

Credit 3 units.

Typical periods offered: Fall

CHEM 5061 Magnetic Resonance

Quantum mechanical and classical aspects of paramagnetism and of nuclear and electronic magnetic resonance. Phenomenological equations of motion, spin interactions, spin temperature, thermal relaxation, dynamic polarization, multiple resonance phenomena. Credit 3 units.

Typical periods offered: Spring

CHEM 5062 Special Topics in Physical Chemistry:

A course dealing with the quantum and classical description of the nuclear magnetic resonance of an isolated system of two spin-1/2 nuclei. The design of pulsed NMR spectrometers and the Fourier analysis of time-dependent observable magnetization in 1 and 2 dimensions are treated in detail, NMR relaxation in liquids and solids is included phenomenologically. Prerequisite: Physical Chemistry or permission of the instructor.

Credit 3 units.

CHEM 5063 Electron Spin Resonance

Principles of magnetic resonance of paramagnetic species, structure and dynamics of organic free radicals and transition metal ions in the condensed phase. Detection of transient paramagnetic species generated in photochemical reactions and photo physical processes. Prereq, Chem 401.

Credit 3 units.

CHEM 5064 NMR for Biological Solids

The course will cover theoretical and practical aspects of nuclear magnetic resonance (NMR) spectroscopy. Specific focus will be given to solid-state NMR and its application for studying amorphous biological solids. Prerequisites: undergraduate-level course in quantum mechanics.

Credit 3 units.

Typical periods offered: Fall

CHEM 5070 Instrumental Methods: Physical Chemistry

A course providing direct hands-on experience with the principles of physical chemistry (thermodynamics, quantum, kinetics) and associated experimental methods and instrumentation, including optical, infrared, and nuclear and electron spin resonance, electrochemistry, calorimetry, laser kinetics, and basic electronics. Prerequisite: Chem 401 or concurrent enrollment in Chem 402.

Credit 3 units. A&S IQ: NSM, WI Art: NSM

CHEM 5080 Special Topics in Physical Chemistry

This course will present a detailed focus on a particular topic of current interest in Physical Chemistry

Credit 3 units.

Typical periods offered: Fall

CHEM 5090 Physical Chemistry for the Life Sciences

This course will cover theoretical and practical aspects of physical chemistry principles applied to biological problems.

Credit 3 units.

Typical periods offered: Spring

CHEM 5100 Chemical Laboratory Safety

An overview of current laboratory safety, regulatory, and compliance practices. Safety and compliance issues that impact chemical, biological, and materials research will be covered. Required for entering chemistry graduate students.

Credit 0.5 units.

Typical periods offered: Fall

CHEM 5101 Introduction to Online Chemical Information Sources

Intro to online searching of Chemical Abstracts database. Topics include assessing the benefits and limitations of online searching, developing and conducting effective and efficient bibliographic search, as well as learning the tools for building and searching chemical structures online.

Credit 0.5 units.

CHEM 5110 Thriving in Graduate School

This course will provide graduate students with a foundation of research, communication, and professional skills, with a focus on starting their thesis research project and preparing for second-year Chemistry program milestones. Students will work individually and in groups to refine their project ideas, make a plan for project implementation, communicate both in writing and orally to multiple audiences, and learn to navigate professional interactions such as networking, negotiation, and feedback. This course is intended to be taken in the first year of the graduate program.

Credit 3 units.

Typical periods offered: Spring

CHEM 5330 Time-Dependent Quantum Mechanics & Spectroscopy

This graduate-level course lays the foundations of time-dependent quantum mechanics and applications to contemporary optical spectroscopies, particularly ultrafast techniques. Formal theoretical descriptions for nonlinear spectroscopic techniques including transient absorption, photon echo, and two-dimensional spectroscopies will be developed. Practical aspects of these experiments including modern laser systems, instrument design, data collection, data processing, and data analysis will also be discussed. Discussion of current literature in the field will be an important component of the course. Prerequisite courses: Chem 401 or permission from the instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

CHEM 5361 Radiochemistry for the Life Sciences

This course will provide an introduction to nuclear science (e.g. radioactive decay, nuclear stability, interactions of radiation with matter) and followed by an overview of how radiochemistry is used in the life sciences. Lectures on radiolabeling chemistry with radionuclides used in medical imaging (single photon emission computed tomography (SPECT) and positron emission tomography (PET) and their applications will be presented. In addition, lectures on radiochemistry with tritium (H-3) and C-14 will also be included. Additional applications include environmental radiochemistry as applied to nuclear waste disposal and biofuels.

Credit 2 units.

CHEM 5510 Organic Chemistry III

A lecture course that builds on the material in the first two semesters of Organic Chemistry, covering in more detail certain topics in those courses while also introducing new topics. A transition to graduate-level study in organic chemistry; recommended for chemistry, biochemistry, and biology majors.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

CHEM 5511 Synthetic Polymer Chemistry

This course that describes various methods for the synthesis and characterization of polymers. Copolymers, control of architecture, polymer reactivity, polymer properties, structure/property relationships, and applications of polymers will be discussed. Current topics of interest from the recent literature will also be covered.

Prerequisite: Chem 262 or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

CHEM 5512 Synthetic Methods

A lecture course presenting a detailed survey of synthetically useful reactions of carbonyl compounds and their derivatives, with particular attention to their stereoselectivity aspects and asymmetric methodology. The course is intended to provide the necessary background for more advanced work in organic synthesis.

Credit 3 units.

Typical periods offered: Spring

CHEM 5513 Advanced Organic Synthesis

The objective of this course is to teach students the art of planning a total synthesis. Key synthetic concepts, strategies and tactics, as well as a variety of reactions and synthetic methods, will be illustrated using examples from total syntheses of the main groups of natural products - terpenes, steroids, and alkaloids. Prerequisite: Chem 451/ Chem 5510 or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

CHEM 5521 Physical Organic Chemistry

The goal of physical organic chemistry (formerly called mechanistic organic chemistry) is to understand the details of reaction mechanisms, and gain insight into structures and reactivity common to organic chemicals and of high-energy chemical intermediates. This course focuses on the structure of any intermediates, the extent of a reaction from the perspective of the transition state, and identifying the relative energies of reactants, products, intermediates, and transition states. Students will learn concepts needed to solve mechanistic organic problems encountered in research, covering common organic reaction mechanisms, experimental techniques, and theoretical approaches. After the course, students will be able to design experiments to probe mechanistic questions and propose reasonable mechanisms and intermediates to explain experimental observations. Prerequisite CHEM 262 or permission of the instructor.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

CHEM 5530 Spectral Methods in Organic Chemistry

A detailed treatment of the structure and stereochemistry of organic compounds with particular emphasis on ultraviolet, visible, infrared, nuclear magnetic resonance, and mass spectroscopic techniques for structure determination.

Credit 3 units.

Typical periods offered: Spring

CHEM 5540 Molecular Orbital Theory

Lectures will cover the background, practice and applications of computational chemistry to the modeling of the structures and chemical reactions of organic molecules. Different levels of calculation will be presented, from molecular mechanics calculations and Hückel molecular orbital theory, through semi-empirical and ab initio self-consistent field calculations with correlation energy corrections, and density functional theory. Hands-on experience performing calculations is an important element in this course.

Credit 3 units.

CHEM 5559 Advanced Organic Chemistry Laboratory

Initially, problem solving in organic chemistry is emphasized through an introduction to the methods of qualitative organic analysis, including the use of chromatographic and spectroscopic techniques. Each student then selects an independent synthetic project to perform. Six laboratory hours per week. Lectures held three hours a week for the first half of the semester.

Credit 4 units.

Typical periods offered: Fall

CHEM 5570 Synthetic Polymer Chemistry Laboratory

An upper-level laboratory course that complements Chem 5511 Synthetic Polymer Chemistry. This twice-a-week lab provides hands-on training in the design, synthesis, and characterization of polymers and polymeric materials through four standard experiments (each one week) and one independent project (over five to six weeks). The independent project involves using an article from the literature as the basis for developing a short proposal. At the end of the course, students give oral presentations of their proposals, which are reviewed by their classmates.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Spring

CHEM 5580 Special Topics in Organic Chemistry

This course focuses on an important current topic in organic chemistry. Open to undergraduates with the permission of the instructor.

Credit 3 units.

Typical periods offered: Fall

CHEM 5590 Organic Chemistry Seminar

The organic chemistry graduate students enrolled will each present one seminar on a topic of current interest in the literature.

Credit 1 unit.

Typical periods offered: Fall, Spring

CHEM 5610 Inorganic Chemistry

Inorganic chemistry encompasses the structure, properties, and reactivity of inorganic molecules and solids. This course will focus on the symmetry, bonding, electronic structure, spectroscopy, and reactivity of inorganic coordination complexes in which ligands are bound to one or more metal centers. The course will start with using group theory to classify molecules based on the symmetry elements they possess. A series of different bonding models including VSEPR, valence bond theory, molecular orbital theory, crystal field theory, and ligand field theory will be used to describe the structure and bonding of inorganic molecules, coordination complexes, and organometallic compounds. These models will serve as a basis for interpreting and predicting the electronic and vibrational spectra of inorganic compounds.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

CHEM 5612 Advanced Inorganic Chemistry

Study of physical inorganic concepts with an emphasis on modern experimental methods applied to inorganic and bioinorganic systems. The spectral and magnetic properties of inorganic and bioinorganic compounds will be discussed. Topics in group theory will be covered, including symmetry of molecules and ions, the application of group theory in molecular structure determination, chemical bond theory and spectroscopy for inorganic materials as molecular species and in crystal lattices. Prerequisite: Chem 461, or consent of instructor.

Credit 3 units.

CHEM 5613 Group Theory

The course will develop applications of group theory to MO theory for inorganic compounds, ligand-field theory, spectral transition probabilities, molecular vibrations, and vibronic coupling.

Credit 3 units.

CHEM 5620 Solid-State and Materials Chemistry

A description of how the structures of crystalline solids at different length scales control their chemical and physical properties is critical for understanding how these materials are applied in a variety of technologies ranging from solar cells to lithium batteries. This course begins with basic crystallography and introduces common inorganic structure types as well as common defects in crystalline solids. With the aid of computer models, students will learn to analyze and index x-ray powder-diffraction patterns that provide a fingerprint to identify a crystal. The relation between the crystal structure of a solid and its resulting electronic structure, chemical reactivity, and physical properties (e.g., optical, electrical, and mechanical) will be discussed throughout the semester with an emphasis on how crystal defects alter these properties. The course will conclude with the use of phase diagrams to assess the composition and microstructure of metals and ceramics. Prerequisite: Chem 105/111A or permission of instructor

Credit 3 units. A&S IQ: NSM Art: NSM

CHEM 5630 Inorganic Electrochemistry and Photochemistry

An understanding of electrochemical processes is critical in describing the behavior of batteries, fuel cells, and other important devices used in energy conversion and environmental remediation. This course will cover modern inorganic electrochemistry, photochemistry,

and photoelectrochemistry from a microscopic perspective of solid-electrolyte interfaces. The course material will start with the thermodynamics of solid-electrolyte interfaces and the kinetics of electron transfer across these interfaces. Electroanalytical techniques, including cyclic voltammetry and potential-step experiments, will be described to understand the mechanism of electrochemical and photochemical reactions. Lectures will include applications of electrochemical cells in catalysis, materials synthesis, and solar-fuel generation. Prerequisites: Chem 461, or Chem 465, or consent of instructor.

Credit 3 units. A&S IQ: NSM

CHEM 5670 Inorganic Chemistry Laboratory

A laboratory course emphasizing both the synthesis of inorganic compounds and the study of their physical properties. Laboratory exercises will introduce novel synthetic techniques including high-temperature synthesis and vacuum-line manipulations. Compounds will be spectroscopically characterized by UV-visible absorption, gas-phase infrared, and multinuclear and dynamic NMR spectroscopies. Measurements of electrochemical behavior, magnetic susceptibility, and electrical conductivity will be performed. Prereq: Chem 461 or consent of the instructor. A Writing Intensive option is available with the permission of the instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

CHEM 5680 Special Topics in Inorganic Chemistry

This course focuses on an important current topic in inorganic chemistry. Prior completion of Inorganic Chemistry is recommended.

Credit 3 units.

Typical periods offered: Fall, Spring

CHEM 5690 Inorganic/Organometallic Chemistry Seminar

Students present informal seminars on topics of current interest from the chemical literature or from their own dissertation research.

Credit 1 unit.

Typical periods offered: Fall, Spring

CHEM 5810 General Biochemistry I

Topics include the properties and structures of biomolecules, including amino acids, nucleotides, lipids, carbohydrates, proteins and nucleic acids. Additional topics include enzyme kinetics and mechanisms, membrane structure and properties, protein folding, an introduction to metabolism, oxidative phosphorylation and photosynthesis. This course is the first semester of an integrated two-semester sequence.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

CHEM 5811 Introduction to Biomolecules

The goal of this course is to introduce students to the preparation, characterization, structure-function relationship, and chemistry of proteins, polysaccharides, and nucleic acids. The course emphasizes understanding the chemical and physical properties of the respective building blocks and their noncovalent interactions as the foundation for macromolecular properties and function. Students will apply fundamental energetic and mechanistic principles (from general and organic chemistry) and develop chemical reasoning skills that enable scientific problem-solving towards the understanding of chemical phenomena in biological systems.

Credit 3 units.

Typical periods offered: Fall

CHEM 5820 General Biochemistry II

Biochemistry explores the chemistry of life processes at the molecular level. This course is the second semester of a two-semester General Biochemistry sequence. The first semester of the Biochemistry sequence covered the basics of the topic with an emphasis on the structures, functions, and interactions of biomolecules including proteins, nucleic acids, carbohydrates, and lipids. This second semester course will emphasize metabolism, the biosynthetic (anabolism) and degradation (catabolism) pathways that provide the energy of life and define the molecules associated with healthy and disease states.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

CHEM 5821 Chemical Biology

This course is a survey of modern chemical biology focusing on the application of a broad array of chemical tools to biological problems. The course is roughly divided into four sections; biopolymers, computational methods and bioinformatics, tools for chemical biology, and applications of chemical biology. A mandatory discussion section accompanies the course and is used to review current and classical literature in the field. Prereqs: Chem 262 and Biol 2970, or permission of the instructor.

Credit 3 units. A&S IQ: NSM

CHEM 5830 Bioorganic Chemistry

This course presents a molecule-centered perspective on the current state of the art in antibiotic drug discovery and natural products chemistry. The molecular mechanisms of antibiotic drug action and pathogen resistance will be covered along with the biosynthetic origins of antibiotics from plants and microbes. The course is taught from the perspective of understanding how organic chemistry plays out in biological systems, with an emphasis on small organic molecules and enzymes. Curved arrow mechanisms will be used frequently in learning activities and assignments. A working knowledge of protein structure and function is helpful. Students are encouraged (but not required) to take General Biochemistry I and/or General Biochemistry II in preparation for this course. Students will be responsible for writing a review article on an assigned antibiotic molecule and presenting their paper to the class.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

CHEM 5831 Nucleic Acids

Credit 3 units. A&S IQ: NSM Art: NSM

CHEM 5833 Protein Biochemistry

The focus of this course is protein biochemistry, and is intended to build upon General Biochemistry. In this course we will focus on protein structure, folding, and techniques to purify and characterize protein activity. We will progress from initial studies to first understand protein fold and function to current efforts to better characterize protein structure-function relationships. We will also highlight human diseases that are underpinned by protein misfolding. This course will focus on reading and understanding primary literature, including landmark papers along with more recent work. During the second half of the semester, each student will select a paper and prepare a written analysis of that paper. The student will then present the paper and lead a journal club style discussion of the paper.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Spring

CHEM 5840 Simulation in Chemistry and Biochemistry

This course explores a wide range molecular modeling techniques and applications of computational chemistry to problems in chemistry and biochemistry. Topics include ab initio quantum mechanics, semi-empirical MO theory, molecular mechanics, molecular dynamics simulation, coarse-grained models, electrostatic methods and biomolecular structure prediction. A major component of the course is weekly laboratory sessions using common software programs in the field, including Spartan, Q-Chem, Gaussian, VMD, TINKER, APBS, AutoDock, SDA7 and others. Many of the lab exercises target proteins, nucleic acids and other biological structures. As a final lab experience, students will complete an independent project using tools covered in the course.

Credit 3 units. A&S IQ: NSM Art: NSM

CHEM 5841 Chemical Dynamics of Biological Pathways

This course will provide a highly advanced evaluation of cellular metabolism. The course will interrogate metabolic pathways and associated enzymatic mechanisms by tracking stable isotope labeling patterns as measured by liquid chromatography/mass spectrometry. The course will not contain any background treatment of mass spectrometry or basic metabolism. To be enrolled, students must already have an in-depth understanding of these topics. Major objectives of the course are: (1) to learn how to use labeling patterns qualitatively to understand chemical mechanisms at the arrow-pushing level as well as metabolic regulation, (2) to learn metabolic flux analysis, (3) to understand the complex metabolic interactions between cells and organs, and (4) to understand how metabolic reprogramming of specific cell types supports physiologic coordination at the organismal level. Pre-reqs: Chem 482/Chem 5820/Biol 4820 AND permission of instructor.

Credit 3 units.

Typical periods offered: Spring

CHEM 5843 Mass Spectrometry

The first focus of the course is an overview of the subject and its history. The second covers the fundamentals of ionization to produce molecular ions. Ionization methods include electron ionization, chemical ionization, electrospray, and matrix-assisted laser desorption. Thermodynamic principles of ionization including ionization energies, proton affinities, and gas-phase acidities provide a fundamental basis for ionization. The third major focus is interpretation of EI and product-ion spectra from MS/MS. Mechanisms of gas-phase ion decomposition reactions, rates and thermodynamics of gas-phase ion processes, and ion-molecule reactions are discussed in terms of interpreting spectra. A major emphasis is the spectra of peptides and proteins, providing a basis for the field of proteomics and related omics areas. The fourth focus is the fundamentals of instrumentation design and implementation: quadrupole, time-of-flight, ion trap, orbitraps, and Fourier transform instruments. Combined or hyphenated GC/MS, LC/MS, and tandem mass spectrometry are also discussed. Applications in a variety of areas are worked in as the course progresses: structure determination of synthetic, natural products, metabolites, and biomolecules, exact mass measurements (high resolution MS), peptide and protein and other biomolecule sequencing, sensitive detection, trace analysis, and mixture analysis. Prerequisite: Chem 262 or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

CHEM 5890 Biological Chemistry Seminar

This course is required for all graduate students following the biological chemistry track. The course will consist of tutorials for first year graduate students and research presentations by second year students. Enrollment in the biological chemistry track required.

Credit 1 unit.

Typical periods offered: Fall, Spring

CHEM 5900 Research

Hours to be arranged.

Credit 0.5-9 units.

Typical periods offered: Fall, Spring

CHEM 7000 Master's Continuing Student Status

Credit 0 units.

CHEM 7010 Master's Nonresident

Credit 0 units.

CHEM 7020 Master's Resident

Credit 0 units.

CHEM 8000 Doctoral Continuing Student Status

Credit 0 units.

CHEM 8010 Doctoral Nonresident

Credit 0 units.

CHEM 8020 Doctoral Resident

Credit 0 units.

Chemistry, PhD

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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 72
- **Degree Length:** 5 years
 - There is a one year minimum residence requirement for the PhD degree at Washington University in St. Louis. The PhD in Chemistry is a five-year program, with most of this time ordinarily spent doing research at Washington University in St. Louis. If necessary, a program extension can be requested and requires approval from the program and the Office of Graduate Studies, Arts & Sciences.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of C is required for coursework to count toward the degree with an overall GPA of at least 3.0.

PhD in Chemistry

Requirements

- 72 units of graduate credit in courses and research
- Satisfactory performance on oral cumulative examinations
- Satisfactory performance in annual pre-thesis committee meetings
- Demonstration of teaching competence
- Dissertation research and preparation of dissertation
- Satisfactory performance on a final oral dissertation defense

Requirements specific to Chemistry include attendance at faculty research presentations during the student's first fall semester, presenting and passing an oral examination within the first four semesters, and annual recertification in laboratory safety.

Almost all students participate in mentored teaching experiences during their first two years and must perform satisfactorily. Students must also make annual research presentations to their advisory committee, prepare a satisfactory dissertation research proposal, and pass an oral examination.

Required Courses

Maintaining a GPA of at least 3.0 and passing at least four courses in the candidate's research area and two courses out of that area by the end of four semesters in residence.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy requirements for the PhD in Chemistry include the following: 1) the submission of a signed coursework completion form reflecting the satisfactory completion of six courses (at least 18 course credits) with a minimum GPA of 3.0 across coursework by the end of the eighth semester; and 2) passing the qualifying (pre-thesis) exam by the end of the third semester, including submitting signed exam forms from thesis committee members with an average score of 60 or greater by the end of the third semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences

as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.

2. All other committee members must be active in research/ scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Requirements for both the master's along the way and in lieu of a PhD are as follows:

- 36 units of graduate credit in courses and research
- Satisfactory performance on oral cumulative examinations

Options for master's degrees with or without a thesis are available.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

The Chemistry MER expands and enhances the opportunities available to students in the program and provides them with additional pathways to develop strong research and teaching portfolios.

PhD students in Chemistry can select from multiple tracks to fulfill the program's MER. These are defined below. It is important that students discuss track options with their thesis advisor and their thesis advisory committee.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

There are two required Preparatory Engagement activities:

1. Entrance exams are given to evaluate readiness for potential Assistant in Instruction (AI) assignments. Advising is provided by a faculty mentor to review entrance exam results and discuss teaching goals and preferences.

- Orientation is given prior to the student beginning their first experience as an AI. This orientation may consist of lab safety training, course-specific policy review, chemistry pedagogy, equity and inclusion, grading philosophy and practice, best practices for student interactions (small group and one-on-one), expectations and time management strategies, syllabus review, evaluation methods, collaborating with various chemistry colleagues, and interaction with the Washington University Center for Teaching and Learning (CTL) on laboratory-specific education, laboratory-experiment practicum, and mentoring/coaching.

Reinforcement of these Preparatory Engagement activities is made available to graduate students from the course instructor, the CTL, and/or additional department teaching mentors before each AI experience.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

PhD students in Chemistry start on the *Common Track*. After completing their pre-thesis exam (during their third semester as a full-time student), they are encouraged to discuss tracks with their thesis advisory committee. At that point, they may apply to either the *Professional Track* (two additional Mentored Professional Experiences) or the *Teaching Intensive Pathway* (one Mentored Independent Teaching Experience) with the approval of their thesis advisor and thesis advisory committee.

Common Track

The Common Track involves the completion of four engagements as an AI in potentially different courses, resulting in a total of 40 MER units (10 units per experience).^{*} These experiences usually take place during years 1 and 2 of the student's program, unless the student petitions the chair and business manager for different timing of the MTE to best serve their professional development (e.g., they want to perform the MTE in a specific course that will not be offered until year 3 of their program).

^{*} This number is based on the mandatory activities associated with the MTE (e.g., attending lectures and recitation sections, grading).

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement

Pathway #1

ASGS 8010	Take four times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

For this pathway, the student must complete the Common Track plus one Mentored Independent Teaching Experience for 20 MER units. The student must be the instructor or co-instructor of record in a new or existing course. A Mentored Independent Teaching Experience may be counted as an advanced teaching experience for the Common Track, but it will be distinct from the standard advanced teaching experiences completed by students on the Common Track and outlined in the Teaching Requirement Form.

Optional Pathway

ASGS 8020	Take one time

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

For this pathway, the student must complete the Common Track plus two Mentored Professional Experiences at 20 MER units each. This track builds experiential education into the PhD training for these students, providing them with valuable opportunities to develop networks, skills, and professional experiences that enhance their professional portfolios.

Optional Pathway

ASGS 8120

Take two times

Classics

The Department of Classics is committed to the threefold study of Greco-Roman antiquity via its languages and literatures, its history, and its art and architectural remains. The **Master of Arts (MA) in Classics** is ideal preparation either for the PhD or for a career in secondary teaching, and it has a strong placement record in both areas. The **Doctor of Philosophy (PhD)** program prepares candidates primarily for careers in research and university teaching. The department also supports students' exploration of alternative careers while pursuing the MA or PhD. Both programs provide rigorous instruction in Greek and Latin languages and literatures, exposure to the subfields of Classics, opportunities to cultivate special fields of research, and teaching experience in departmental courses.

Although both graduate programs are built around preparation in the core fields of Classics, opportunities exist for collaboration with numerous other departments and programs. PhD candidates have the option to pursue one of several special interdisciplinary tracks: Ancient History, Ancient Performance, Ancient Music, or Ancient Philosophy. Washington University also possesses several special collections of interest to the Classics researcher: the John Max Wulfling Coin Collection, an internationally recognized resource that can be applied to studies in numismatics, history, economics and art; a small collection of papyri housed in Olin Library; a substantial archive of epigraphical materials; and an important collection of Greek painted pottery.

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Faculty

Chair

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Susan I. Rotroff
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Senior Lecturer
PhD, University of Michigan

Kathryn Wilson
Senior Lecturer
PhD, University of Pennsylvania

Degree Requirements

- Classics, Accelerated BA/MA (p. 153)
- Classics, MA (p. 154)
- Classics, PhD (p. 155)

Courses

Courses include the following:

- Classics (p. 143)
- Greek (p. 146)
- Latin (p. 149)

Classics

CLASSICS 5000 Independent Work

Intended for students who wish to do informal work on advanced problems in classical studies without employing Greek or Latin texts in their original languages.

Credit 6 units.

Typical periods offered: Fall, Spring

CLASSICS 5012 Pedagogy Independent Study

Credit 3 units.

Typical periods offered: Spring

CLASSICS 5020 Research and Publication On the Greco-Roman World

An introduction to the profession of classical scholarship, in the form of a pro-seminar for all graduate students in the Department of Classics. The course provides an introduction to a variety of methods and aspects of the study of Greece and Rome. We will read samples of the scholarly literature in each area to explore what it means to pursue a career in Classics.

Credit 3 units.

Typical periods offered: Fall

CLASSICS 5030 Classical Studies: Theories, Methods & Practice

An introduction to professional matters pertaining to the field of Classics, in the form of a proseminar required for all graduate students in the Department of Classics. The first half of this course provides an introduction to a variety of methods and aspects of the field. We will read samples of scholarly literature in each area and explore what it means to pursue a career in Classics. The second half of the course provides an introduction to Classics pedagogy with a particular focus on language instruction. Students will read about Classical language pedagogy, observe faculty, and develop syllabi as preparation for teaching at WashU and beyond.

Credit 3 units.

Typical periods offered: Fall

CLASSICS 5050 Seminar in Classics Pedagogy for Graduate Students

This course examines both perennial issues and ongoing developments in the teaching of Classical languages and cultures. Weekly readings in pedagogical scholarship and the history of the field will be complemented by discussion of members' current and anticipated teaching assignments. Members will give presentations and prepare a final project. Required of all PhD students in Classics; also open to Classics MA students.

Credit 3 units.

Typical periods offered: Spring

CLASSICS 5081 Sacred Ways and Holy Spaces: Athenian Religion and Topography

From seashore to mountain top, ancient Athens was famous for being a landscape rich with myth and religion. In order to worship their gods with processions, sacrifices, and other acts of devotion, Athenians moved through, across, and within space as defined by such things as sacred roads, monumental gateways and altars, and even places considered so holy that one was forbidden to enter. This course will introduce students to the study of place (topography) and to the methods and evidence by which we can determine where specific buildings and sites were, how they were used, and what they signified. We will explore major sites like the Acropolis as well as a variety of other temples, shrines, and holy sites across urban and rural landscapes alike, each of which structured space in its own way. By examining a wide range of archaeological and textual evidence (c. 800 BC-AD 400), we will develop an integrated understanding of Athenian religious belief and ritual in the context of architecture and space. While this course will concentrate on the topography of architecturally definable religious sites, we will also explore religious practices (e.g., magic, early Christianity) that employed the landscape in fundamentally different ways than other parts of the Athenian religious system.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: ETH, HUM, IS EN: H

Typical periods offered: Fall

CLASSICS 5100 Comparative Greek and Latin Grammar

A detailed study of Latin and Greek grammar facilitated through prose composition and study of linguistic history. The linguistic component will trace the development of each language from Proto-Indo-European to its classical form. PREREQUISITE: GRADUATE STANDING IN CLASSICS.

Credit 3 units.

Typical periods offered: Fall

CLASSICS 5231 The Reception of Egypt in the Graeco-Roman World

Ancient Greeks and Romans found Egypt to be an exceptionally enthralling world, in terms not only of its physical features but also of its people, monuments, and traditions. This course will explore how different views of Egypt emerged in the Graeco-Roman world; it will also investigate the possible reasons for the remarkable popularity and allure of Egypt and things Egyptian as reflected in the writings of Greek and Roman authors as well as in the art and architecture of the Mediterranean world in Classical antiquity. In this seminar, we will read primary literary sources (in translation) that focus on the reception of ancient Egypt and, more specifically, its history, religion, and customs. Several of these sources also offer a privileged viewpoint to investigate how the perception of notable Egyptian figures -- chiefly Cleopatra -- was shaped by Rome to suit a specific agenda. In addition to the written sources, we will look at the artistic and archaeological evidence that best showcases the impact of Egypt's legacy on Graeco-

Roman traditions. The readings assigned for each class will also provide a broad sample of secondary sources, consisting of some of the most significant scholarship on the image of Egypt in Classical antiquity.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

Typical periods offered: Fall

CLASSICS 5250 The Archaeology of Christian Monasticism

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: AH, HUM BU: HUM EN: H

CLASSICS 5261 Ancient Athens

Athens was one of the great cities of antiquity. From lavishly decorated marble temples on the Acropolis, to public office buildings and inscriptions in the Agora (civic center), to the houses of the living and the monuments for the dead, the city has left a rich record of her material culture. These buildings and objects, together with an exceptionally large number of literary and historical texts, make it possible to paint a vivid picture of the ancient city. The course concentrates on the physical setting and monuments of Athens, as revealed by both archaeology and texts, and how they functioned within the context of Athenian civic and religious life. PREREQUISITES: CLA 345C, CLA 350, OR PERMISSION OF INSTRUCTOR.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5361 Topics in Ancient Studies

Study of one or more themes recurring in the traditions of Greek and Roman literature, history, and culture. Topic will vary each semester.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

CLASSICS 5421 The Later Roman Empire: From Constantine to Justinian

Covers the period from c. 300 through the reign of Justinian. Focus on legal developments and codification of law, social changes, rise of Christianity, and fall of the Roman Empire in the west. PREREQUISITES: CLA 342C OR PERMISSION OF INSTRUCTOR.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5529 Art and Death in Ancient Rome

Perhaps more than any other phenomenon, death spurred the creation of art in the ancient Roman world. The practice of materially commemorating the deceased -- of perpetuating the memory of the dead through the creation of funerary monuments designed to appeal to both intimate familial relations and the public at large -- stretched across Roman social boundaries and endured for many centuries. But death also frequently provided the subject matter of art even outside the confines of the funerary realm. The goal of this course will be to explore the complex relationship between art and death in the Roman world. It will range from early Rome to the end of the empire and the changes brought about by widespread conversion to Christianity. In conjunction with historical readings, the course will also engage with theoretical texts in the anthropology and philosophy of death. Prerequisites: Intro to Western Art (L01 113) or Intro to Modern Art (L01 215); one 300-level course in Art History preferred; or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: AH BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5531 The Greek Symposium

This course explores the history, archaeology, material culture, and sociology of the symposium in ancient Greece. While we will focus mainly on the archaic and classical Greek symposium, we will also examine its reception in the Roman world. In this context, we will study art and literature produced for the symposium, as well as representations of the symposium in literature, especially in lyric poetry, drama, and philosophical prose.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Spring

CLASSICS 5533 Hellenistic Philosophy

The Hellenistic Age, traditionally dated from the death of Alexander and his (Macedonian) Empire at 323 BCE to the birth of Augustus' (Roman) Empire in 31 BCE, gave the West three of its most innovative and influential schools of philosophy: Epicureanism, Skepticism, and Stoicism. This course investigates the central features of their thought. Special attention is paid to the still-relevant debates between the Stoics and Skeptics about the possibility of knowledge, to the disagreements among all three schools about the issues of freedom, responsibility, and determinism, and to their ethical theories. Prerequisites: one course in Philosophy at the 300-level, graduate standing, or permission of the instructor.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5600 Ancient Greek Religion

For the ancient Greeks, religion lay at the very core of all that they valued, thought, accomplished, created, and experienced. The correct worship of the gods constituted one of the great drivers of all social interaction and structure, be that in matters of war or of housekeeping. The religion of the ancient Greeks stands therefore as one of the most important, surprising, varied, and challenging domains of ancient society that we can study and it has formed an essential part of Classics since the very inception of this discipline some seven centuries ago. There is no text, no image, no place, no idea, no act, and no object that did not partake of or was somehow deeply informed by religious experience, belief, and practice. We will explore thematically a range of major topics ranging from the nature of myth and the actuality of animal sacrifice to the architecture of temples and the development of tomb cult, especially for heroes, in early Greece. We will pay special attention to the nature and limitations of our evidence and to methodological problems, as well as to an array of perspectives and questions. Concepts such as pollution, sin, purity, and the afterlife will be frequent topics of discussion, and most of our course will focus on the archaic and classical periods. We will therefore spend time elucidating as wide a range of what constitutes 'ancient Greek religion' as possible, including the role of curse tablets and magic, the mystery cults, the prevalence and function of oracles, the introduction of new gods and cults and non-Greeks, and much more. By virtue of the evidence at hand, much of our attention will be devoted to Athens, but we will also elucidate other histories and religious phenomena across the Greek world, spatially and chronologically, wherever possible. Our practical objectives include achieving broad as well as incisive knowledge of ancient Greek world in its manifold varieties and dimensions, as well as a deep familiarity with an important branch of scholarship devoted to it. In addition, the two assigned papers will constitute important practice in the development of students' abilities to write logical, clear, and properly substantiated research papers, while the presentations and discussion will further students' abilities to develop and defend their ideas and scholarly arguments. Please note that this is a 3-credit course.

Credit 3 units.

Typical periods offered: Fall

CLASSICS 5621 Ancient Greek and Roman Music

Music played a vital role in Ancient Greece and Rome. New resources and perspectives now allow us to appreciate the ancients' music better than ever before. This course addresses the nature of ancient music (instruments, melody and rhythm, modes), ancient attitudes towards music, and its contribution to public and private life. The focus throughout will be on our ancient sources, both literary and archaeological.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5641 Ancient Madness

In this course we will ask what madness meant in Greek and Roman culture. We will find reading strategies that are sensitive both to ancient evidence and to the ethical demands of talking about, evaluating, and categorizing people treated as mad. While we will concentrate on literary (particularly tragic and epic), philosophical, and medical texts, we will also look at visual representations and evidence from ritual and cult. An important part of our project will involve tracing the afterlife of classical ideas: the history of melancholia will ground this aspect of the course. Finally, we will consider how antiquity informs psychoanalysis (Oedipus, Antigone, Narcissus), and how ancient madness might partake in a critique of contemporary understandings of mental illness.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall

CLASSICS 5701 Ancient Greek and Roman Gynecology

This course examines gynecological theory and practice in ancient Greece and Rome, from about the 5th century BCE to the 3rd century CE. The task is complicated by the nature of our evidence. Our surviving textual sources are authored exclusively by men, mainly physicians. They have a pronounced tendency to conceptualize the health and disease in terms of a single body, which was male by default. They distinguished female bodies from male primarily in reproductive aspects. How exactly did these physicians understand diseases of women and, as far as can be recovered, to what extent were their views represented among laypeople? What form did treatment take and what was the social status of practitioners, both that of our extant sources and female practitioners whose voices have largely been silenced by the textual tradition? We will approach the study of Greek and Roman gynecology, first from the perspective of Greco-Roman medical views, then from the point of view of contemporary Western biomedicine. The limited nature of our sources will allow students to read the majority of surviving material. These primary readings will be accompanied by current secondary scholarship that explores these fascinating and often frustrating questions about the female body in ancient medical thought. All primary materials will be available in English translation. There will be an option for students with a background in Greek or Latin to form a satellite reading group. The course does not assume familiarity with Greek and Roman medicine more broadly.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall

CLASSICS 5761 Money, Exchange, and Power: Economy and Society in the Ancient Mediterranean World

From seaborne trade and banking to slavery and the impact of new technology, the economy of the ancient Mediterranean world constitutes a particularly dynamic field of study. To examine a society's underlying economics is to gain critical insight into those historical phenomena that are themselves the product of multiple, overlapping dimensions of human action and thought. This course engages directly with a fascinating array of primary evidence for economic behaviors, beliefs, structures, and institutions among the Romans, Greeks, and their neighbors. We will also explore the methodological

challenges and implications of that evidence as well as a variety of modern theoretical approaches. This year our focus is mainly upon developments among the Greeks, ranging from the transformative invention of coinage to the rise of commercial networks centered around religious sanctuaries like Delos. PREREQ: CLA 341C OR 342C OR 345C OR 346C OR PERMISSION OF INSTRUCTOR.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

Typical periods offered: Fall

CLASSICS 5771 Olympian Shadows: Macedon and Its Neighbors in Antiquity

The home of both Alexander the Great and Aristotle, Macedon was pivotal to the course of ancient Greek and Roman history and yet stood apart as a culturally and politically distinct region. Macedonian dynasts dominated the Hellenistic world and deeply shaped Roman reception of Greek culture, while others profoundly affected the intellectual life of antiquity. We will explore topics ranging from ethnicity, religion, and the nature of kingship to urbanization and Macedon's emergence as a great power until its subsequent transformation at the hands of the conquering Romans. We will pay special attention to Macedon's neighbors, especially Thrace and Illyria, as well as to Macedon's relationships with the Persian Empire and the Greek coastal colonies. PREREQUISITES: AT LEAST ONE SEMESTER OF CLASSICS 341C, 342C, 345C, OR 346C, OR INSTRUCTOR'S PERMISSION.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5801 Roman Coins and Their Stories

This course will provide insights into everyday life in Rome and its territories through the evidence of the coins minted from the Roman Republic until the collapse of the Western Roman Empire in AD 476 and beyond. We will discuss general numismatics, starting with the history of coins and coinage, and we will understand how these small objects became an intrinsic part of the Roman way of life and what evidence they provide for daily life in Rome, from ideology to religion and from politics and culture.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

CLASSICS 5811 Politics in the Late Roman Republic

In this course we will examine public life and political crisis during the last century of the Roman Republic. We will begin with a brief survey of the history of the last century and a half of the Roman Republic, from Tiberius Gracchus' tribunate in 133 BC to the beginning of autocracy under Augustus in the 30s BC. We will then turn to a topics-based investigation of current controversies in the field of Roman politics, focusing on reexamining—and deeply questioning—established narratives of Roman political culture and the socio-political crises of the late Republic.

Credit 3 units.

Typical periods offered: Fall, Spring

CLASSICS 7000 Master's Continuing Student Status

Masters course for continuing students.

Credit 0 units.

Typical periods offered: Fall

CLASSICS 7050 Masters Nonresident

Nonresident Masters course.

Credit 0 units.

Typical periods offered: Fall

CLASSICS 8000 Doctoral Continuing Student Status

Doctoral course for continuing students.

Credit 0 units.

Typical periods offered: Fall

CLASSICS 8050 Doctoral Nonresident

Nonresident Doctoral course.

Credit 0 units.

Typical periods offered: Fall

Greek

GREEK 5000 Independent Work

This is an independent study.

Credit 6 units.

Typical periods offered: Fall, Spring

GREEK 5050 Greek Comic Theatre

Comedy as a dramatic genre has its roots in ancient Greece, and other genres of Greek theater had laughter and merriment at their core. We will read together texts from four types of ancient Greek comic theater: satyr play, Old Comedy, New Comedy, and mime. Along the way, we will read and discuss works by modern scholars on various aspects of these genres and their performance.

Credit 3 units.

Typical periods offered: Spring

GREEK 5070 Survey of Archaic and Classical Greek Literature

Readings in archaic and classical Greek literature. The course will include selections from poetry and prose (e.g. Homer, Pindar, Aeschylus, Herodotus, Thucydides, etc.) as well as secondary literature on the subject matter.

Credit 3 units.

Typical periods offered: Fall, Spring

GREEK 5100 Greek Epigraphy: An Introduction

This course will teach the fundamentals of the discipline (epigraphy) that constitutes the study of Greek texts inscribed on stone, metal, and other media. We will survey essential topics ranging from early alphabets and the relationship between script and phonology to the study of specialized branches of knowledge, such as onomastics and prosopography. We will pay special attention to the inscriptions' physical media and topographical context in conjunction with mastering the techniques of recording, reading, and interpreting their Greek texts. We will also closely engage with the rich and evolving scholarship of Greek epigraphy as well as the proper publication of inscriptions and related professional matters. Later weeks will focus on several discrete bodies of inscriptions, such as Attic decrees and sacred laws, that require substantial engagement with historical, legal, religious, and cultural context. This course will expose students to a wide array of ancient Greek dialects and will strengthen their command of non-literary as well as literary forms of Greek.

Credit 3 units.

Typical periods offered: Spring

GREEK 5120 Greek Epigram

Personal, witty, poignant, raunchy: epigrams show us the whole spectrum of human emotions and offer us glimpses at the strata of society rarely preserved in the literary record. This course will offer a comprehensive study of the development of the genre of

Greek epigram, from its beginnings through the Imperial Period, with a particular focus on the Hellenistic Period, when it rose in popularity and its literary conventions were shaped. Students will read a wide selection of poems in the main types of epigram: funerary, dedicatory, erotic, and epideictic, and consider questions of authorship attribution. In particular, we will study the organization of collections, both using papyrological evidence (i.e. the new Posidippus discovery) to think about the artistic decisions behind ancient collections and also using the textual tradition to investigate how late antique and Byzantine collections have shaped our knowledge of the genre. Topics of study will also include epigraphic use of the poems, the role of objects and deicticism, the depiction of women, and connections in the aesthetics of epigram with contemporary art history.

Credit 3 units.

Typical periods offered: Spring

GREEK 5161 Hesiod

In this course, we will read substantial passages from the works attributed to Hesiod, an archaic period Greek poet whose style and subject matter are often contrasted to Homer, and whose influence on Greek literary culture was second only to Homer's. Hesiod's two major poems - Theogony and Works and Days - form important evidence for the Greek rhapsodic tradition, and the mythological content and compressed styles of these mini-epics strongly influenced later Hellenistic Greek and Roman poets. Through discussion of readings from recent scholarship, we will consider topics including the authorship and dating of the Hesiodic corpus, Hesiod's Near-Eastern influences, oral poetics, mythography, genre studies, and narratology. Preparation of substantial Greek reading assignments will be supplemented with frequent practice of scansion (both written and oral) and the parallel development of sight translation skills. Students will be responsible for the development of a portfolio consisting of written translations, creative and interpretive mini-projects, a commentary, and an original research project.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

GREEK 5200 Thucydides

Thucydides created a distinct and critically important tradition of historical writing with his incomplete but monumental history of the Peloponnesian War. We will read extensive passages of the Greek text and examine numerous questions of Greek history and historiography that arise from or intersect with Thucydides' work.

Credit 3 units.

Typical periods offered: Spring

GREEK 5211 Sophocles

In this course, we will read closely two plays by Sophocles: OEDIPUS REX and TRACHINIAN WOMEN.

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Spring

GREEK 5221 Euripides

The tragedies of Euripides are among the most powerful dramas ever produced. In this class we will read one or more plays of Euripides in Greek as well as scholarly works on the tragedies. Among the topics discussed will be language and style, meter and music, mythological and historical backgrounds, elements of performance, and Euripides' influence in the modern world. PREREQUISITES: GREEK 318C OR PERMISSION OF THE INSTRUCTOR AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

GREEK 5231 Aeschylus

This course will focus on Aeschylus' SEVEN AGAINST THEBES and on the PROMETHEUS BOUND; in addition, we will look at a few fragmentary plays. Readings will include relevant secondary literature.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM

EN: H

Typical periods offered: Fall

GREEK 5241 Aristophanes

A close reading of CLOUDS, FROGS, and PLUTUS, three plays that span the career of Aristophanes. No other author can tell us more about the lives and sensibilities of fifth- and fourth-century Athenians. PREREQ: GRK 318C OR PERMISSION OF INSTRUCTOR AND SOPHOMORE STANDING OR ABOVE. (INTERESTED FRESHMEN SHOULD CONSULT THE INSTRUCTOR AND CANNOT REGISTER WITHOUT PERMISSION.)

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Spring

GREEK 5301 Herodotus

The Histories of Herodotus are our most important source for a key period of Greek history and are also a delight to read. We will read in Greek sections from various parts of the Histories. Among the topics discussed will be Herodotus' attitudes towards cultural and ethnic differences, the accuracy of Herodotus' narrative, and Herodotus' literary techniques. PREREQUISITES: GREEK 318C OR PERMISSION OF THE INSTRUCTOR AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Fall

GREEK 5311 Thucydides

The course aims to help students read and comprehend the historian in the original. PREREQUISITE: GREEK 318C OR PERMISSION OF THE INSTRUCTOR AND SOPHOMORE STANDING OR ABOVE. (INTERESTED FRESHMEN SHOULD CONSULT THE INSTRUCTOR AND CANNOT REGISTER WITHOUT PERMISSION.)

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

GREEK 5321 The Attic Orators

More than mere prose, Attic oratory consists of a rich body of literature in which style was paramount to its persuasive aims, and provides vital evidence for Athenian culture, politics, mores, institutions, thought, and history. This course will survey a representative-and important-sample of forensic, epideictic, and symbouleutic speeches from classical Athenian oratory, and will give special attention to the social, legal and political context of these speeches. In addition, the class will focus on improving students' command of syntax, vocabulary and idiom as the basis for further development as well as the study of different orators and their style.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM

EN: H

Typical periods offered: Fall

GREEK 5371 Topics in Greek Poetry

Reading in Greek and discussion of one or more texts by one or more ancient Greek poets. May be repeated for credit for study of different texts.

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Fall

GREEK 5381 Topics in Greek Literature

Study of selected problems, eras, or generic sequences; specific topic for each semester in Course Listings. May be repeated for credit for study of different topics.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM

EN: H

Typical periods offered: Spring

GREEK 5391 The Greek Novel:

AN ETHIOPIAN STORY by Heliodorus (4th century CE) is a Greek novel unparalleled in length, ingenious in construction, and sophisticated in style. As expected, a pair of ill-fated but faithful lovers suffer their way through the tale. That tale, meanwhile, is steeped in Greek literary and philosophical history, and Heliodorus is fascinated by identity-formation in the cosmopolitan world he depicts. Issues of race and ethnicity take center stage as we follow our hero and heroine from Greece to Ethiopia. Across the semester we will engage the social and political stances the novel takes, while we also translate and analyze selections in Greek and read the whole novel in translation. PREREQ: GREEK 317C AND 318C OR THE EQUIVALENT, AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

GREEK 5401 Lucian

Lucian's TRUE HISTORIES is neither true, nor a history, but it is often called the first science fiction novel. Lucian's voice is one of the most distinctive in antiquity: wry, sarcastic, and too clever by half. He feels distinctly modern but is steeped in the literary tradition before him. In this class, we will read his TRUE HISTORIES and several other of his works, with a focus on his questions about truth and fiction, and his engagement with other genres of writing, including historiography, epic, philosophy, and rhetoric. We also read about the first journey to the moon.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Spring

GREEK 5410 Seminar: Imperial Greek Literature

Greek literature during the Roman Imperial period regularly defines itself in retrospective terms: antiquarianism, Atticism, and philological acumen were arenas in which proper understanding and control of the Greek past contributed to the cultural weight of present intellectual activity, all under the shadow of Imperial rule. This course will provide a thematic selection of Imperial Greek authors (1st-3rd centuries CE) along with associated secondary scholarship. Beyond facility with the course content, this seminar aims to train students further in academic writing and presentation. Authors may include Aelius Aristides, Athenaeus, Dio Chrysostom, Diogenes Laertius, Epictetus, Galen, Heliodorus, Longus, Lucian, Marcus Aurelius, Pausanias, Plutarch, and Sextus Empiricus. PREREQUISITES: GRADUATE STANDING IN CLASSICS, OR IN ANOTHER DEPARTMENT WITH PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Fall

GREEK 5440 Sophocles

We will read together two tragedies of Sophocles in Greek and the remaining five extant tragedies in English translation, and students will each choose an additional play to read in Greek on their own. We will discuss various aspects of the plays and of Sophoclean theater, including elements of performance, historical and cultural context, issues of interpretation, and Sophocles' legacy. Prerequisite: graduate standing in Classics or permission of the instructor.

Credit 3 units.

Typical periods offered: Spring

GREEK 5451 Greek Prose Composition

The tradition of writing in Attic Greek stretches from classical antiquity to the present. In this course, students will become connoisseurs of that tradition and enter into it themselves. In the process, they will become better Hellenists. Each week, students will review points of Greek grammar, compose Greek sentences illustrating those points, read and analyze the style of a Greek passage, and write an original Greek composition of their own device. We will focus not only on grammatical and idiomatic accuracy but also on elegance of style. In this course, students will develop a more nuanced understanding of the Attic Greek language in all its many-splendored glory. They will thereby increase their ability to read ancient Greek with depth, ease, and pleasure. Prerequisite: Greek 317C and Greek 318C or equivalent and sophomore standing or higher. Note: This course is required for MA and PhD students in Classics.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

GREEK 5460 Plutarch

Selections will be read from Plutarch's non-biographical works as well as relevant scholarship. PREREQUISITES: GRADUATE STANDING IN CLASSICS, OR IN ANOTHER DEPARTMENT WITH PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Spring

GREEK 5500 Aeschylus

Aeschylus' tragedies are of incomparable interest both as works of drama and as windows into ancient Greek thought. We will read together one tragedy, *Agamemnon*, very carefully in Greek. Along the way we will read and discuss works by modern scholars on various aspects of Greek tragedy, Aeschylus, and *Agamemnon*.

Credit 3 units.

Typical periods offered: Fall

GREEK 5511 Plato

This course will focus on a set of Plato's dialogues known as his Early Dialogues. We will read two and perhaps three of the *Euthyphro*, *Protagoras*, and *Meno* in Greek. We will accompany these readings with a relatively small sample of secondary scholarship in English that aims at contextualizing the dialogues in the broader scope of Plato's work. Our aim will be to gain familiarity with Plato as a prose author as well as a philosophical thinker.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

GREEK 5530 Medical Writing in the Greek Intellectual Tradition:**Galen and the Hippocratic Corpus**

This class will offer an introduction to the writings of the Hippocratic Corpus as well as their reception in the philosophico-medical work of Galen of Pergamum (2nd century CE), which is primarily responsible for the picture of Hippocrates and Hippocratic medicine that survives to the present. We will situate the texts of the Hippocratic Corpus in the intellectual context of the Classical period and examine how their proper interpretation became a contested site for intellectual authority in Hellenistic and Imperial discourse about textual authenticity, climate, the body, empiricism, and the role of theory in scientific endeavors.

Credit 3 units.

Typical periods offered: Spring

GREEK 5601 There Be Dragons: Greek Encounters With the Unknown in History and Legend

How did ancient Greeks imagine their world, both in terms of geography and ethnography? What did they know -- or think they knew -- about foreign cultures and faraway lands such as India, Persia, Africa, and the distant north? How have their representations of foreigners influenced European conceptions of the self and others, even into our own time? This course examines these questions by focusing primarily on two foundational authors: first, Herodotus, the father of history, who provides a wealth of information about ancient geography and the customs and lifestyles of non-Greek peoples; and second, Apollonius of Rhodes, whose epic poem *The Argonautica* tells the legendary tale of Jason and the Argonauts' search for the Golden Fleece. We will read extensive passages of these books in ancient Greek and, we will read and discuss additional passages in English translation, along with modern scholarship and atlases with historical and modern maps.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS

EN: H

Typical periods offered: Spring

GREEK 5610 Lysias

Of all the Attic orators, Lysias gives us perhaps the most vivid depiction of daily life among the Athenians. Active as a logographer c. 403-c. 380, Lysias' numerous speeches (and fragments thereof) also illuminate a vital period in the history of an Athens that experienced profound defeat in the Peloponnesian War and yet managed a remarkable resurgence once it overthrew the Thirty Tyrants. More than an eyewitness, Lysias thus provides us with vital evidence for the workings of Athenian society during a critical period. We will investigate the rhetoric and language of Lysias' speeches (which ensured his place among the canonical Attic orators) and we will also explore numerous questions of Athenian law, politics, institutions, economy, and religion where they arise in connection with his work. Students will also be expected to read all of the fragments and testimonia in Carey's edition of Lysias, regardless as to whether we discuss them in class.

Credit 3 units.

Typical periods offered: Spring

GREEK 5700 Homer: Poetic Grammar and the Language of Homer

This course is an intensive, student-driven exploration of the language of Homer and Hesiod and the poetic grammar of ancient Greek epic. There is much "under the hood" of the vehicle of epic language that is often left to the specialists to fuss over: an odd form here or a hidden digamma there. This course seeks to dispel some of the perceived dread of "old-school philology" that often haunts discussions of epic grammar, while serving as a practical guide to the utility of such apparently quibbling pursuits as hunting for hidden digammas. We will consider the origins of the epic "dialect," including questions of historical grammar, and its relation to other dialects of ancient Greek. We will investigate poetic grammar from the micro to the macro level: From minutia of metrics, poetic formulas, and particle use to larger structural units like ring composition and poetic repair. We will be most concerned with the interfaces of structure and meaning: Are particularly spondee-heavy lines associated with a particular tone or gravity of sense? Does the lack of augment convey some special signification? These and other questions will be addressed in depth, spearheaded by the students' own interrogation into topics of most interest to themselves. Students will produce a final paper that allows them to engage with these topics in conversation with current research in the field of Homeric studies. In doing so, we will see how heavily linguistic analysis bears on textual interpretation and how careful attention to Homer's use of language can bring us to a deeper appreciation of his work and its motives.

Credit 3 units.

Typical periods offered: Fall, Spring

GREEK 5711 Galen's On Prognosis: A Social History of Medicine in Second-Century Rome

Galen of Pergamum was a Greek physician, philosopher, and intellectual active throughout most of the second century CE. He was also a voracious reader and writer of Greek literature; his surviving work far exceeds the extant output of any other Greek author before the third century CE. In this course, we will be reading Galen's treatise *On Prognosis*, in which he recounts his career in the city of Rome, from his arrival in the early 160s through his tenure as an imperial physician to at least the emperors Marcus Aurelius and Commodus. While ostensibly a medical account, *On Prognosis* has little to say on technical medical issues. Rather, Galen's story is a carefully constructed professional autobiography that pivots from searing denunciations of Roman life to tense public performances of medical expertise and finally to intimate case histories of Rome's rich and powerful. The text presents us a fascinating window through which to examine not only the social practice of elite medicine in Rome of the second century but also the complicated experience of a Greek intellectual navigating the corridors of the Imperial court. Course goals include improving accuracy and speed in reading Greek prose, acquiring greater familiarity with intellectual discourse of the Imperial Period, and training in methods of research and writing.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM, IS EN: H

Typical periods offered: Spring

GREEK 5801 Readings in the Greek New Testament and Greco-Roman Religions

This course reads selections from the Greek New Testament and places early Christianity in its historical, literary, and political setting in the Roman Empire in comparison with other religions of the ancient Mediterranean. First, we will read about the new religion of the snake-god Glycon, a manifestation of the Greek god Asclepius, founded by Alexander the prophet, as described by his chief critic, Lucian of Samosata. We will seek to understand both Lucian's disdain for Alexander, whom he calls a "false" prophet, and the historicity of the temple beyond Lucian's allegations of fraud. Second, we will read about the spread of early Christianity in the Roman world through the missions of the apostle Paul, as narrated by his chief proponent, Luke, in the Acts of the Apostles. We will seek to understand both Luke's apologetic version of the story and the historicity of the movement beyond Luke's propagandistic motives.

Credit 3 units.

Typical periods offered: Fall, Spring

GREEK 5900 Research

This is a research course.

Credit 3 units.

Typical periods offered: Fall, Spring

GREEK 5950 Seminar

This course will provide a survey of the most important poetic works from the Hellenistic Period, with a focus on the Alexandrian poets Callimachus, Theocritus, and Apollonius. It will address a number of important issues in current scholarship on the period, including aesthetics, the question of performance, the use of realia and contemporary events, and the influence of literary scholarship and scientific discovery. PREREQ: GRADUATE STANDING IN CLASSICS OR PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Fall

Latin

LATIN 5000 Independent Work

This is an independent study.

Credit 6 units.

Typical periods offered: Fall, Spring

LATIN 5019 Caesar

Extensive reading in both the Gallic and Civil War of Caesar. We will also look at representations of Caesar in Sallust, Cicero, and Suetonius.

Credit 0 units.

Typical periods offered: Fall, Spring

LATIN 5070 Survey of Roman Literature I: The Republic

An overview of the literature of the Roman Republic. We will read selections from major authors, paying particular attention to individual style, intertextuality, the development of genres, and the relationship between Roman literature and Roman society.

Credit 3 units.

Typical periods offered: Spring

LATIN 5080 Survey of Roman Literature II: The Empire

An overview of the literature of the Roman imperial period, for graduate students. We will read substantial excerpts from major texts and authors beginning with the Augustan era and extending at least two centuries. By encountering a range of genres and styles, students will develop important reading strategies, cover a substantial amount of the graduate Latin Reading Lists, learn about the history and contexts of literary production in the empire, and become confident users of the relevant bibliography and research tools. PREREQ: GRADUATE STANDING IN CLASSICS, OR IN ANOTHER DEPARTMENT WITH PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Fall

LATIN 5081 Intensive Introductory Latin: From Grammar Basics to Translation

An intensive introduction to Latin, especially suitable for graduate students in the humanities, social, and natural sciences, but open to undergraduates who seek permission from the Department of Classics. Thorough introduction to grammar, vocabulary, and syntax will be supplemented by translation practice. The last part of the course will focus on translation of substantial selections from Latin authors including Vergil and Ovid. Students who complete the summer course should subsequently be able to enroll in a 300-level Latin course.

Credit 6 units. A&S IQ: HUM, LCD BU: HUM

Typical periods offered: Summer

LATIN 5100 The Roman Novel

This seminar is concerned with the two works of Latin prose fiction, which have been enormously influential in western narrative literature: Petronius' *SATYRICON* (a.k.a. *SATYRICA*) and Apuleius' *Metamorphoses* (a.k.a. *GOLDEN ASS*). We will read portions of these works in Latin, including their famous central episodes (the dinner of Trimalchio and the tale of Cupid and Psyche) to get acquainted with the style of the two authors and the content of the works. From secondary readings we will become conversant with the major issues and debates in the history of the field, and pursue further interpretation of these works through both literary and cultural lenses.

Credit 3 units.

Typical periods offered: Spring

LATIN 5110 Cicero: Pro Milone

The PRO MILONE was among Cicero's most famous speeches in antiquity. In it he defends his friend Milo against the charge of murdering Publius Clodius Pulcher, Cicero's archenemy. The defense failed, but the published speech remains one of Cicero's finest, a fascinating document from a turbulent time, full of interest both historical and rhetorical. In this class we will read the PRO MILONE in detail, supplementing our study with close examination of other sources that shed light on the speech, Cicero's career, and Republican Rome in the 50s BC. PREREQUISITES: GRADUATE STANDING IN CLASSICS, OR IN ANOTHER DEPARTMENT WITH PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Fall

LATIN 5151 Cicero

Cicero's PHILIPPICS, speeches denouncing Mark Antony after the death of Julius Caesar, are masterpieces of invective from one of Rome's greatest orators. We will read PHILIPPICS 1 and 2, paying particular attention to: Cicero's language and style; rhetorical genre; and Cicero's assassination of Antony's character in the political and cultural context of the 1st century BCE. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5161 Seneca

The tragedies of Seneca are fascinating works in themselves and have had a profound influence on modern theatre and literature. In this class we will read one or more plays of Seneca in Latin as well as scholarly works on the tragedies. Among the topics discussed will be the tradition of tragedy in Rome, questions of performance, and Seneca's responses to the politics and philosophy of his age. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5171 Seneca: Philosopher and Friend

Seneca the Younger was a philosopher, politician, playwright, and propagandist; he rose from the province of Spain to become tutor and advisor to Nero, only to fall from favor and commit suicide at the emperor's command. We will study Seneca's life and works, focusing on the Epistulae Morales and select philosophical treatises. We will pay special attention to issues of language and style, cultural and historical context, and ideological and philosophical content. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5190 Being a Roman Governor: Tacitus and Pliny

This course focuses on two prose works of the early imperial period: Tacitus' AGRICOLA, about his father-in-law's term as governor of Britain under Domitian; and Book 10 of the letters of Pliny the Younger, his correspondence with Trajan while Pliny was governor of Bithynia-Pontus. Though in completely different genres and styles, these works share a common theme: the governance of a distant Roman province under the Principate. In addition to a close reading of the texts and

discussion of the historical and literary issues they raise, we will look at legal and documentary evidence relating to Roman government of the provinces. We will also engage with the current scholarly debate about what is often called "Romanization," including not only mutual acculturation and accommodation but also their opposites, resistance and revolt.

Credit 3 units.

Typical periods offered: Fall

LATIN 5200 Pliny the Younger

Pliny the Younger is the outstanding representative of almost all aspects of Roman intellectual life circa AD 100. He was Pliny the Elder's adopted son; he was taught by Quintilian; he corrected Tacitus's works; he moved in the same circles as poets like Martial, Statius, and Silius Italicus; he was a Roman advocate, senator, consul, and governor; he was a correspondent of Trajan. Always an object of interest for his value as a source for matters social and historical, in recent years he has begun to attract interest as a sophisticated literary artist in his own right. In this course we will read all of Pliny's surviving writings.

Credit 3 units.

Typical periods offered: Spring

LATIN 5211 Plautus

In this course, we will study Plautus' Pseudolus, one of his most famous plays. While not neglecting linguistic detail and cultural context, we will focus primarily on the play as a theatrical performance. This will entail discussions of topics ranging from music to masks, as well as almost daily attempts to understand the play by performing it in our classroom. In lieu of a final exam, students will work in small groups to stage and record a scene from the play; they will also write an accompanying final paper explaining and justifying their approach to the performance.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5221 Lucretius

In this course, we will read selections from Lucretius' didactic epic poem ON THE NATURE OF THINGS. The poem explains the basic tenets of Epicurean philosophy, including the physical structure of the universe, the nature of the soul, and reasons to reject fear of death. Special attention will be given to how Lucretius uses myth and poetry, his relationship with earlier Greek sources, and his place in histories of science. No prior knowledge of Epicureanism or any philosophy is necessary; Lucretius will be happy to explain everything to you. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5230 Roman Comedy

The plays of Plautus and Terence are both incomparable sources for Roman cultural values and central documents in the history of Latin literature and European theater. In this course we will read together four plays: two of Plautus and two of Terence. In addition to issues raised by the individual plays, we will discuss various broader questions surrounding Roman comedy, including its relationship to its Greek predecessors, its connection with Republican Roman society and ideology, and aspects of performance. Prerequisites: Graduate standing in Classics or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall

LATIN 5240 Terence and the Making of Roman Literature

This graduate seminar focuses on the comic plays of Terence (160s BCE), their original context, their afterlife, and the enigma that is their author's life story. Although he wrote comedies about family spats and young love, and complained of disrespect from his contemporaries, Terence occupied a pivotal place in Latin literature's development and in the formation of an archaic literary canon that valued both pure Latin style and edifying content. The author himself, reported to have been a native of Rome's great enemy Carthage, found a place not just in the Roman theatrical scene, but among the leading intellectuals and statesmen of his day. We will read from select plays in Latin, all the rest in English, and other relevant ancient texts. Graduate-appropriate assignments in secondary reading, presentations, and research will be given. PREREQUISITES: GRADUATE STANDING IN CLASSICS, OR IN A RELATED DEPARTMENT WITH PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Fall

LATIN 5250 Petronius

In this course we will read what remains of Petronius' *Satyricon* (or *Satyrical*), an exuberantly comic novel probably dating to the Neronian period. We will have several goals: 1. To read and try to understand Petronius' text in its literary and cultural context. 2. To improve our ability to read Latin with ease, nuance, and pleasure. 3. To work collaboratively toward writing a group-authored academic paper. PREREQ: GRADUATE STANDING IN CLASSICS OR PERMISSION OF INSTRUCTOR.

Credit 3 units.

Typical periods offered: Spring

LATIN 5270 Catullus

We will read the entire corpus of Catullus in Latin and scholarly works on Catullus and his poems, examining the sound and style of the poems, their literary and cultural background, their influence on later literature, and how various modern approaches can help us understand them.

Credit 3 units.

Typical periods offered: Fall

LATIN 5290 Livy

This course is designed as an introduction to the *AB URBE CONDITA* of Livy. We will read extensive selections from the work in Latin and will discuss various questions, including Livy's relationship with earlier and later writers, his style and literary techniques, and his moral, political, and philosophical preconceptions.

Credit 3 units.

Typical periods offered: Spring

LATIN 5311 Vergil: The Aeneid

We will read books 2 and 3 of the *Aeneid*, in which Aeneas relates the fall of Troy and the strange series of events that leads him to Carthage and Dido. In addition to close analysis of Vergil's poetic practice in the context of the poem as a whole, we will consider ways in which he engages his epic forebear Homer.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

LATIN 5321 Horace

This course examines Roman poetry that illuminates ancient and still-influential ideas about the functions of literature. Horace's monumental *Ars Poetica* and his other literary-critical works will be the major texts. These works convey the complexity of contemporary debates about literature's role in society and history and about the

merits of various genres (epic, tragedy, comedy, satire, epigram). Readings in secondary sources will help to fill out the picture of Horace's career and of the climate of literary production in early Imperial Rome.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

LATIN 5331 Ovid

In this course, we will read selections from the monumental and multifaceted "*Metamorphoses* of Ovid," which was composed before the poet's exile from Rome in 8 CE. Supplementary readings from Ovid's elegiac verse will give us a fuller picture of the poet's career and cultural context. Substantial daily Latin readings will be supplemented with practice of scansion, additional readings from related ancient works, and readings from modern scholarship on the poem. There will be regular translation quizzes, a final exam, student presentations, and a final research and writing project. Prerequisites: Latin 3171, Latin 3181 (or equivalent, and sophomore standing or above).

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5350 Imperial Eloquence: The Theory and Practice of Rhetoric in Rome's "Silver Age"

Under the early Roman emperors, when the fiery political oratory of the republic was only a memory, oratory and rhetorical training remained highly important vehicles for advocacy of communities and individuals, elite self-definition, communication of political and cultural values, literary expression, and even mass entertainment. Early imperial literary sources attest rhetoric's dominance of the educational curriculum, and this was only the beginning of an enduring institution. In this course we will study (in the original Latin) the description and prescription for rhetorical education written by Quintilian and Tacitus' discussion of the literary and political status of rhetoric in the imperial period, along with several other primary and secondary sources that flesh out our picture of the theory and practice of rhetoric.

Credit 3 units.

Typical periods offered: Spring

LATIN 5360 The Well-Trodden Path: Hellenistic Poetry in Rome

In this course, we will study the influence of Hellenistic poetry (especially Callimachus, Theocritus, Apollonius, Aratus, and epigram) on neoteric and Augustan poetry. Students will read some Hellenistic poetry in Greek as well as the Latin texts. The class will consider how poetic metaphors are picked up and changed, how translation affects the use of these ideas, and the development of major themes and genres. Attention will be paid to how and why Roman poets depart from their Greek models. We will also learn about how theories of intertextuality and reception have been applied in this arena.

Credit 3 units.

Typical periods offered: Spring

LATIN 5400 Roman Satire

Study of the satiric poets Lucilius, Horace, Persius, and Juvenal; discussion of satire's literary qualities and its perspective on Republican and Imperial society. Substantial Latin reading load; regular secondary readings; research projects.

Credit 3 units.

Typical periods offered: Fall

LATIN 5411 Roman Satire

This course focuses on the genre of hexameter satire represented by the Roman poets Lucilius, Horace, Persius, and Juvenal (2nd century BCE - 2nd century CE). The Roman professor Quintilian called satire "entirely Roman" (tota nostra), and our readings will allow us to explore the meaning of this claim for satire's authors and readers. We will read a large sampling of satiric verse in the original Latin, practice reading the dactylic hexameter, and observe and discuss differences between the poets' styles and themes. We'll also read and discuss scholarship on the genre's formal characteristics and influences, its origins in Republican literary culture, and its development in the Imperial period. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5421 Roman Theater

Theater was a vital part of Roman life, and Roman drama and theatrical practices have had a profound effect on the history of theater. We will read and discuss extant plays of Roman comedy (Plautus and Terence) and tragedy (Seneca) and fragments of lost works of tragedy, comedy, mime, and pantomime. Along the way we will read and discuss works by modern scholars on various aspects of these genres and their performance. We will pay particular attention to areas of continuity and development in the 1000-year history of ancient Roman theater.

Credit 3 units.

Typical periods offered: Fall

LATIN 5440 Latin Prose Composition

Readings in select authors coupled with Latin composition, primarily in prose but occasionally in verse, with attention to grammatical and idiomatic accuracy as well as elegance of style.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5441 Latin Prose Composition

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

LATIN 5510 The Roman Historians

The Roman Historians. A survey of the major historians of the late republic and early empire, Sallust, Livy and Tacitus. Emphasis will be on their methodology and purpose in writing history. We will also look at the research activity of the antiquarians like Varro and Gellius. If time permits, we will try to read some of Ammianus Marcellinus

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5596 Tacitus

Tacitus, the great historian and orator of the late 1st and early 2nd centuries CE, is one of our best sources for the early history of the Roman Empire. With his concise style and scathing political insight, Tacitus' writings influenced later authors from Ammianus Marcellinus to Macchiavelli. We will read selections from Tacitus' historical works, paying particular attention to: prose style; genre, rhetoric, and historiography; and Tacitus' critique of the Principate. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5651 Silver Latin Epic: Lucan

Lucan's epic poem about the civil war between Caesar and Pompey, written under Nero, investigates themes of individuality, citizenship, morality, and historical inevitability in Roman history. We will read selections from the poem, focusing on Lucan's literary models and poetic style; his treatment of the past and of historical figures like Caesar, Pompey, and Cato; and Lucan's place in the political, philosophical, and literary world of Neronian Rome. PREREQ: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall

LATIN 5700 Post-Classical Latin

This course is designed for graduate students who require Latin proficiency in their study of medieval and early modern texts. After initial grammar review and guided readings of selected extracts from a representative range of periods and genres, we will focus on texts relevant to the research interests of participants. Class time will focus on improving speed and accuracy of translation. Prospective students should contact the instructor to discuss whether the course is a good fit for their current level of Latin skills.

Credit 3 units.

Typical periods offered: Fall

LATIN 5711 Elegiac Poetry

In this course we will read a broad selection of the works of the Roman elegiac poets, focusing primarily on the works of Propertius, Tibullus, and Ovid. This course will emphasize the development of Roman elegy as a genre during the Augustan period, and will consider a range of literary topics related to elegy, including poetic voice and persona, fictionality, style, meter, intertextuality, and generic tropes, as well as the political, social, and cultural context(s) for these poems. Coursework will include translation and analysis of Latin texts, written assignments, and readings from scholarly literature on Roman elegy. Prerequisites: L10 3171 & 3181 or the equivalent.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5800 Martial and Juvenal

This course examines the Epigrams of Martial and the Satires of Juvenal in their context (Rome and the Roman world of the 80s-120s CE). Near-contemporaries and acquaintances, these two poets have had a massive impact on modern perceptions of the state of Rome under Domitian, Nerva, Trajan, and Hadrian. The world they represent is actually as much a poetic world full of dramas and fictions as it is a real place. From our readings the poets and from sources on their work and times, we will gain an understanding of their literary agendas. Topics of discussion and research will include imperial politics, the poetic career and literary tradition, Roman public spaces, amicitia and its rituals, private life, and sexual behavior. We will relentlessly practice accurate and clear Latin translation and scansion of the meters used by the epigrammatist and satirist, and every student will conduct and present original research. PREREQ: Graduate student status in Classics, or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall



LATIN 5831 Readings in Latin Prose: Apuleius

An introduction to the life, world, and works of Apuleius, North African writer of the second century CE. We will concentrate on his prose fiction *METAMORPHOSES* (also known as *THE GOLDEN ASS*), which moves from donkey-transformation to goddess-liberation. Magic, sexuality, and narrative wit abound. We will also read excerpts from the *APOLOGIA*, Apuleius' defense against charges of malicious magic. Prerequisites: Latin 3171 and Latin 3181 (or equivalent) and sophomore standing or above.

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Spring

LATIN 5861 Tacitus

Tacitus (ca. 56-ca. 120), considered by many the greatest of the ancient Roman historians, is one of our best sources for the history of the early Roman Empire, and his *Germania* is without a doubt the most important source for the ancient Germans. In this course we will read the *Germania* with particular emphasis on Tacitus' prose style, the genre of Roman ethnography, and how the work critiqued the Roman Empire. We will pair the *Germania* with selections from a variety of Renaissance authors to see how Tacitus' text both contributed to the formation of (a) German identity and led to widely divergent views of the ancient Germans, as uncultured barbarians or as a noble and praiseworthy people.

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5871 Topics in Empire Latin

May be repeated for credit for study of different topics.

Credit 3 units. A&S IQ: HUM, LCD, LS Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

LATIN 5881 Martial

Martial, the prolific first-century Latin poet, left behind fifteen books of poetry. Martial's epigrams can be witty, sincere, caustic, and often quite sexually explicit. In this course, we will read a selection of Martial's epigrams in Latin, and we will discuss various themes related to Martial's work, such as gender and sexuality, ancient conceptions of authorship and publishing, flattery, invective, and the many personae Martial adopts. We will also pay close attention to Martial's language and style, and we will discuss where Martial fits into the wider social and historical context. PREREQUISITES: LATIN 3171 and LATIN 3181 (OR EQUIVALENT) AND SOPHOMORE STANDING OR ABOVE.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Spring

LATIN 5891 The Emperor Claudius

The Julio-Claudian emperor Claudius (ruled 41-54 CE) is famous for his physical disabilities, his scholarly pursuits, his surprising elevation to power in middle age upon the murder of Caligula, his tragic promotion of his successor the teenaged Nero, his postmortem deification by the senate, and his modern reception in the fiction of Robert Graves (*I, Claudius* and *Claudius the God*) and television. In this course we will read two Latin texts that sum up Claudius' life, character, and reign: Suetonius' *Life of Claudius* (early 2nd c. CE) and Seneca's vicious satire *Apocolocyntosis* ("Ascent of the Pumpkinhead into Heaven," written just after Claudius' death). Excerpts from the historian Tacitus and the satirist Juvenal will add to our picture of Claudius and the evolution of the role of emperor.

Credit 3 units.

Typical periods offered: Fall

LATIN 5900 Research

This course is for independent research credit.

Credit 3 units.

Typical periods offered: Fall, Spring

LATIN 5940 Topics in Latin Literature

This course involves the study of selected problems, eras, or generic sequences; the specific topic for each semester can be found in the Course Listings. The course may be repeated for credit for the study of different topics.

Credit 3 units. A&S IQ: HUM, LCD, LS Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

LATIN 5950 Seminar

Credit 3 units.

Typical periods offered: Fall

LATIN 5960 Seminar

Tacitus's account of the principate of Tiberius in books 2-6 of the *Annals* has called into question his claim that his account is free of bias and distortion. We will concentrate on book 4 of the Tiberian narrative for a deeper understanding of Tacitus's techniques both as historian and stylist. Some attention will also be paid to Tacitus's earlier works, especially the *Histories*.

Credit 3 units.

Typical periods offered: Fall

Classics, Accelerated BA/ MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Accelerated BA/MA in Classics

The Accelerated BA/Master's program allows qualified Washington University undergraduates to complete a master's degree in Classics in a one-year accelerated program after completing the BA degree. The undergraduate and graduate degrees are awarded sequentially, with admission to the master's degree, if approved, for the fall semester following completion of the undergraduate degree in the preceding December, May, or August.

Applications must be submitted by March 15, and GRE tests are not required. The program is available only to students currently in their senior year and only for continuous enrollment in the next year. There is no option for deferred admissions. In order to complete a master's degree in one year, students may apply five courses taken at the 4000 level or above as an undergraduate (with a maximum of 16 units) toward the master's program in Classics. All admissions are provisional until the successful completion of the BA.

The actual awarding of each degree is contingent on the successful completion of all requirements for that degree. The application for admission must be made to the department and the Office of Graduate Studies, Arts & Sciences, through the admissions system. There is no application fee. Students in the program should familiarize themselves with the relevant sections of this *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Four academic years of undergraduate studies + one academic year of graduate studies
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Classics follows the Arts & Sciences minimum grade requirement of C– or better for courses that apply to the program. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

Courses

Total units required: 36 units

- Five courses taken at the 4000 level or above as an undergraduate (with a maximum of 16 units)
- Remaining seven courses (21 units) completed in the graduate year

Specific Required Courses (6 units, one course [3 units] completed senior year)

- CLASSICS 5030 Classical Studies: Theories, Methods & Practice (a proseminar on materials, methods, and professional issues in Classics; offered every 2 years)
- CLASSICS 5100 Comparative Greek and Latin Grammar (offered every 2 years)

Other Course Requirements (30 units)

- At least 6 units in Greek (two options are offered every semester)
- At least 6 units in Latin (two or more options are offered every semester)
- Students writing a master's thesis in their graduate year may enroll in 0, 3, or 6 research credits

Most remaining courses will be in Greek, Latin, and Classics. All must be at the 4000 level or higher. Courses taken as a master's student must be at the 5000 level or higher.

Research Credits (6 units)

The master's thesis may count for up to 6 units. Any student opting not to write a thesis will fulfill these units with additional courses.

Modern Language Competence

This competence can be in German, French or Italian. The requirement may be fulfilled by courses or examination.

Program Exams

- Greek Reading List
- Latin Reading List

Students not planning to go on to a PhD program in Classics may opt to take the Reading List exam in one language (Greek or Latin) only. Those who pursue this option must still complete at least 6 units in the other language at the 5000 level or above, not counting the required Comparative Greek and Latin Grammar course. The examination will require the student to demonstrate competence in translation and interpretation as well as in knowledge of the relevant scholarship.

Teaching Option

MA students may have the opportunity to assist faculty as paid student workers in undergraduate courses.

Phone: 314-935-5123
Email: classics@wustl.edu
Website: <https://classics.wustl.edu>

Classics, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Two academic years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Classics follows the Arts & Sciences minimum grade requirement of C– or better for courses that apply to the program. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

MA in Classics

Candidates may obtain an MA degree in Classics by completing 36 graduate units of credit, completing a reading list, and taking a series of examinations. Students applying to continue in the Classics department's PhD program must also write a master's thesis. Others may choose to complete the MA with or without a thesis.

Courses

Total units required: 36 units, including the following:

Specific Required Courses (6 units)

- CLASSICS 5030 Classical Studies: Theories, Methods & Practice (a proseminar on materials, methods, and professional issues in Classics; offered every 2 years)
- CLASSICS 5100 Comparative Greek and Latin Grammar (offered every 2 years)

Other Course Requirements (30 units)

- At least 6 units in Greek (two options are offered every semester)
- At least 6 units in Latin (two or more options are offered every semester)
- Students writing a master's thesis in their second year may enroll in 0, 3, or 6 research credits

Most remaining courses will be in Greek, Latin and Classics. All must be at the 5000 level or higher.

Research Credits (6 units)

The master's thesis can count for up to 6 units. Any student opting not to write a thesis will fulfill these units with additional courses.

Modern Language Competence

This competence can be in German, French or Italian. The requirement may be fulfilled by courses or examination.

Program Exams

- Greek Reading List
- Latin Reading List

Students not planning to go on to a PhD program in Classics may opt to take the Reading List exam in one language (Greek or Latin) only. Those who pursue this option must still complete at least 6 units in the other language at the 5000 level or higher. The examination will require the student to demonstrate competence in translation and interpretation as well as in knowledge of the relevant scholarship.

Teaching Option

MA students may have the opportunity to assist faculty as paid student workers in undergraduate courses.

Phone: 314-935-5123
Email: classics@wustl.edu
Website: <https://classics.wustl.edu>

Classics, PhD

Phone: 314-935-5123
Email: classics@wustl.edu
Website: <https://classics.wustl.edu>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 51 (48 for those who satisfy the Material Culture requirement outside of coursework)
- **Degree Length:** Five academic years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students must obtain a minimum grade of B– in graduate courses for them to count toward the degree. Students are expected to maintain a cumulative grade point average of 3.0 on a 4.0 scale.

PhD in Classics

The Classics PhD requires 51 graduate units of courses (48 for those who satisfy the Material Culture requirement outside of coursework) and research in combination. Up to 15 of these units may be transferred from an outside MA program in Classics at the discretion of the Graduate Committee. (Requirements listed below include requirements for the MA in Classics at Washington University.) All units must be at the 5000 level or above. With the guidance of the director of graduate studies, students may take up to 15 units outside of the Classics department to enhance their graduate study. If they wish, students may choose to pursue one of four special interdisciplinary specializations: Ancient Performance, Ancient Music, Ancient History, or Ancient Philosophy. Every PhD candidate also completes a teaching requirement through assignments as an assistant in instruction and an instructor of record.

Courses

Total units required: 51 (48 for those who satisfy the Material Culture requirement outside of coursework), including the following:

Specific Required Courses (6 units)

- CLASSICS 5030 Classical Studies: Theories, Methods & Practice (a proseminar on materials, methods, pedagogy, and professional issues in Classics; offered every 2 years)
- CLASSICS 5100 Comparative Greek and Latin Grammar (offered every 2 years)

Other Course Requirements (30 units; 27 for those who satisfy the Material Culture requirement outside of coursework)

- At least 12 units in Greek (two options are offered every semester)
- At least 12 units in Latin (two or more options are offered every semester)
- At least 3 units in Ancient History (at least one course will be offered every year)
- At least 3 units in Material Culture (if fulfilling this requirement by coursework)

Elective Courses (15 units)

This requirement includes courses for interdisciplinary work, individual specializations, optional independent studies in preparation for exams, and other courses to be chosen after consultation with the Director of Graduate Studies.

MA Qualifying Paper

By the end of the second year, students must complete an MA qualifying paper. This paper will be approved by a departmental committee.

Program Exams

- Greek Reading List
- Latin Reading List
- Comprehensive Exam

Teaching

85 Mentored Experience Requirement units are required, ordinarily to be completed during the second, third, and fourth years. Please review the "Mentored Experience Requirement" sections below for more information.

Modern Language Competence

This competence can be in German and French or in German and Italian. The requirement may be fulfilled by courses or examination in each case.

Dissertation Requirements

- Dissertation prospectus
- Dissertation prospectus colloquium
- Dissertation
- Dissertation defense

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Classics Doctoral Pre-Candidacy Requirements

To be considered Classics PhD candidates, students are required to do the following, at minimum:

- Complete required coursework by the end of the fifth semester.
- Complete all required exams before the start of the seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve

competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.

2. All other committee members must be active in research/ scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

The Classics department takes pride in its commitment to pedagogy and teacher training. The skills gained in our Mentored Teaching Experiences (MTEs) are essential for our PhD graduates looking to pursue careers in secondary or higher education. Moreover, the ability to synthesize and distill complex information and explain it to an audience of non-specialists in understandable and memorable ways is also of wide application beyond academia — in almost any career.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Classics requires three Preparatory Engagement activities:

1. The Center for Teaching and Learning's teaching orientation
2. The department's teaching orientation, which is mandatory before students begin serving as Assistants in Instruction (AIs)
3. The departmental course CLASSICS 5030 Classical Studies: Theories, Methods & Practice, which includes pedagogy, is offered every two years and may be completed concurrently while serving as an AI

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete

a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Classics requires 25 MER units of AI assignments based on the following units by course:

- 10 MER units = Class in which PhD students do not lead a weekly discussion section (but rather only attend lectures, hold office hours, assist with grading, and so forth)
- 15 MER units = Class in which PhD students lead a weekly discussion section

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students complete MITs over the course of their time in the program. MITs will typically include introductory and intermediate Latin and Greek language courses, but they may also include other courses, depending on a variety of factors.

PhD students will ordinarily begin teaching during their second year in the program. Many students will then teach in years 2, 3, and 4, but the details of when they teach and what they teach will be tailored to the needs and specific academic plans of individual students. Many pathways are possible.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take one time
ASGS 8020	Take three times

Pathway #2

ASGS 8010	Take one time
ASGS 8015	Take one time
ASGS 8020	Take one time
ASGS 8120	take two times

Comparative Literature and Thought

The following graduate degrees are available from the Department of Comparative Literature and Thought:

- Comparative Literature, PhD (p. 167)
- Data Science in the Humanities, Graduate Certificate (p. 173)
- Early Modern Studies, Graduate Certificate (p. 174)
- German and Comparative Literature, PhD (p. 175)
- German and Higher Education Administration, MA (p. 180)
- Germanic Languages and Literatures, MA (p. 181)
- Germanic Languages and Literatures, PhD (p. 182)
- Translation Studies, Graduate Certificate (p. 187)

See the home department for information about the dual PhD programs, including the following:

- East Asian and Comparative Literatures, PhD (p. 207) (East Asian Languages and Cultures)
- English and Comparative Literature, PhD (p. 272) (English)
- French and Francophone Studies and Comparative Literature, PhD (p. 453) (Romance Languages and Literatures)
- Hispanic Studies and Comparative Literature, PhD (p. 462) (Romance Languages and Literatures)

Contact: Graduate Program Administrator:
Comparative Literature and Thought
Phone: 314-935-5170
Email: complitandthought@wustl.edu
Website: <https://complitandthought.wustl.edu/>

Faculty

Chair

Matt Erlin
Professor of German
PhD, University of California, Berkeley

Director of Graduate Studies

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PhD, Stanford University

Director of Undergraduate Studies

Matt Erlin
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Aylin Bademsoy
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PhD, University of California, Davis

Nancy E. Berg
Professor of Modern Hebrew Language and Literature (Affiliated Faculty)
PhD, University of Pennsylvania

J. Dillon Brown
Associate Professor of English (Affiliated Faculty)
PhD, University of Pennsylvania

Jianqing Chen
Assistant Professor (Affiliated Faculty)
PhD, University of California, Berkeley

Jiayi Chen
Assistant Professor of East Asian Languages and Cultures (Affiliated Faculty)
PhD, University of Chicago

Lingchei Letty Chen
Professor of Modern Chinese Literature (Affiliated Faculty)
PhD, Columbia University

Rebecca Copeland
Professor of Japanese Language and Literature (Affiliated Faculty)
PhD, Columbia University

Tili Boon Cuillé
Professor of French and Comparative Literature (Affiliated Faculty)
PhD, University of Pennsylvania

Amy Gais
Lecturer in Comparative Literature & Thought
PhD, Yale University

Matthias Goeritz
Professor of Practice of Comparative Literature
PhD, Washington University

Robert E. Hegel
Liselotte Dieckmann Professor Emeritus of Comparative Literature in Arts & Sciences (Emeritus Faculty)
PhD, Columbia University

Robert K. Henke
Professor of Drama
PhD, University of California, Berkeley

Mona Kareem Husain
Assistant Professor of Jewish, Islamic, and Middle Eastern Studies (Affiliated Faculty)
PhD, State University of New York at Binghamton

Ignacio Infante
Professor of Comparative Literatures
PhD, Rutgers University

Carol Jenkins
Lecturer in Germanic Languages and Literatures
PhD, Washington University in St. Louis

Hyeok Hweon Kang
Assistant Professor East Asian Languages and Cultures (Affiliated Faculty)
PhD, Harvard University

Catherine Keane
Professor of Classics (Affiliated Faculty)
PhD, University of Pennsylvania

Tom Keeline
Associate Professor of Classics (Affiliated Faculty)
PhD, Harvard University

Katherine Kerschen
Lecturer in Germanic Languages and Literatures
PhD, Penn State University

Gabi Kirilloff
Assistant Professor of English (Affiliated Faculty)
PhD, University of Nebraska-Lincoln

Stephanie Kirk

Professor of Spanish (Affiliated Faculty)
PhD, New York University

Caroline Kita

Associate Professor of German
PhD, Duke University

Sarah Koellner

Assistant Professor of German Languages and Literatures
PhD, Vanderbilt University

Naomi Lebowitz

Hortense and Tobias Lewin Distinguished Professor Emerita in the Humanities
PhD, Washington University

Ji-Eun Lee

Associate Professor of Korean Language and Literature (Affiliated Faculty)
PhD, Harvard University

Tabea Linhard

Professor of Spanish (Affiliated Faculty)
PhD, Duke University

Joseph Loewenstein

Professor of English
PhD, Yale University

Frank Lovett

Professor of Political Science
PhD Columbia University

Paul Michael Lützel

Rosa May Distinguished University Professor Emeritus (Emeritus Faculty)
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Marvin Marcus

Professor Emeritus of Japanese (Emeritus Faculty)
PhD, University of Michigan

Erin McGlothlin

Gloria M. Goldenstein Professor of Holocaust Studies
PhD, University of Virginia

William McKelvy

Associate Professor of English (Affiliated Faculty)
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Timothy Moore

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PhD, University of Maryland

Philip Purchase

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Wolfram Schmidgen

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PhD, University of Chicago

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Vincent Sherry

Howard Nemerov Professor in the Humanities (Affiliated Faculty)
PhD, University of Toronto

Alexander Stefaniak

Associate Professor of Music (Affiliated Faculty)
PhD, Eastman School of Music

Harriet Stone

Professor of French (Emeritus Faculty)
PhD, Brown University

Lynne Tatlock

Hortense and Tobias Lewin Distinguished Professor in the Humanities
PhD, Indiana University

Anika Walke

Associate Professor (Affiliated Faculty)
PhD, University of California

Gerhild Scholz Williams

Barbara Schaps Thomas and David M. Thomas Professor Emerita in the Humanities (Emeritus Faculty)
PhD, University of Washington

Degree Requirements

- Comparative Literature, PhD (p. 167)
- Data Science in the Humanities, Graduate Certificate (p. 173)
- Early Modern Studies, Graduate Certificate (p. 174)
- German and Comparative Literature, PhD (p. 175)
- German and Higher Education Administration, MA (p. 180)
- Germanic Languages and Literatures, MA (p. 181)
- Germanic Languages and Literatures, PhD (p. 182)
- Translation Studies, Graduate Certificate (p. 187)

Courses

Courses include the following:

- Comparative Literature and Thought (p. 162)
- Germanic Languages and Literatures (p. 164)

Comparative Literature and Thought

COMPLITTHT 5007 Literary Modernities in East Asia: Text & Traditions

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

COMPLITTHT 5010 Methods of Literary Study: The Theory and Practice of Literary Translation

This course combines a review of translation theories with a study of translation practices. We will investigate how translations reflect changing literary and cultural values. In addition, we will examine how the nuances of language and culture (source and target) influence the translator's choice of whom and what kind of text to translate. Guest translators will be invited to discuss their work. Requirements: Class presentation of a literary translation of your choice; to be turned into a paper. You must choose a text that has at least two previous translations, which you will evaluate and critique as you work on your own translation and which will be part of your paper. Poetry is preferable; should you choose prose, you must select a challenging text. The paper must include an outline/brief discussion of your methodological assumptions.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5020 Methods of Literary Study: The Theory and Practice of Literary Translation II

A review of translation theories and the study of cultural translation across different time periods and areas of the world. A more general approach to translation and cultural exchange in a globalizing world than Part I (Comp Lit 551), with specific examples to be drawn from Europe, Asia, Latin America and various cultural and literary exchanges between these regions. Topics will include the ideological and ethical underpinnings of translation, the political uses of language in intercultural communication, translation and comparative poetics, the impact of digital technology, and the role of translation in a postcolonial and multicultural world. We will consider not only written texts, but also film and new media as the objects of our critical inquiry. Students will choose a work that has already been translated for critique, in addition to producing their own translation and a critical response to their translation. Requirements: presentations, response papers, final translation project. Native or near-native competence in English and another language. This class is required for students completing the Graduate Certificate in Translation Studies. Open to graduate students in Comparative Literature, English, foreign languages and literatures, as well as any other program across the Humanities with an interest in Translation Studies.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5050 Theory and Research Methods in the Humanities

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

COMPLITTHT 5107 Literary Modernities in East Asia: Text & Traditions

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

COMPLITTHT 5112 The Empire Writes Back

Britannia did indeed once rule the waves, controlling an empire that encompassed a quarter of the globe. In the estimation of many, literature was a crucial component of its power. This course will examine the nature of Britain's cultural power, as well as the ways colonial authors answered back through an assertive rewriting of the British canon. We will read classic texts of British literature - Charlotte Brontë's *JANE EYRE*, E.M. Forster's *HOWARD'S END*, Joseph Conrad's *HEART OF DARKNESS* - in tandem with later reworkings of them by authors such as Zadie Smith and Jean Rhys, in order to tease out the implications of literary emendation and adaptation. The course will also look at film versions of these works, as well as some critical theories of revision, hoping to shed light on both the opportunities and the pitfalls of attempting to critique a system of thought within the constraints of that very system.

Credit 3 units.

Typical periods offered: Fall

COMPLITTHT 5200 Introduction to Comparative Literature

An introduction to the discipline and practice of Comparative Literature, this course explores the concepts most frequently discussed and the methods most successfully practiced. We will study what texts reveal when they are examined cross-culturally. Students will consider the various differences that emerge between texts when themes and genres are followed across more than one national literature. The course includes a short history of the discipline and recent debates about the nature and scope of the field. Topics to be discussed include genres and forms, influence and intertextuality, translation, world literature, exile, and cross-cultural encounter.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5210 Literature in the Making

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5231 Seminar: Transatlantic Modernisms

Credit 3 units.

COMPLITTHT 5295 Seminar in Cultural Theory:

REMINDER: Course X-listed with one in German.

Credit 3 units.

Typical periods offered: Spring

COMPLITTHT 5301 Data Manipulation for the Humanities

The course will present basic data modeling concepts and will focus on their application to data clean-up and organization (text markup, Excel, and SQL). Aiming to give humanities students the tools they will need to assemble and manage large data sets relevant to their research, the course will teach fundamental skills in programming relevant to data management (using Python); it will also teach database design and querying (SQL). The course will cover a number of basics: the difference between word processing files, plain text files, and structured XML; best practices for version control and software hygiene; methods for cleaning up data; regular expressions

(and similar tools built into most word processors). It will proceed to data modeling: lists (Excel, Python); identifiers/keys and values (Excel, Python, SQL); tables/relations (SQL and/or data frames); joins (problem in Excel, solution in SQL, or data frames); hierarchies (problem in SQL/databases, solution in XML); and network graph structures (nodes and edges in CSV). It will entail basic scripting in Python, concentrating on using scripts to get data from the web, and the mastery of string handling.

Credit 1 unit. EN: H

COMPLITHT 5303 The Philosophical Discourse of Modernity

Graduate Level Seminar. Topics vary by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITHT 5310 Statistics for Humanities Scholars: Data Science for the Humanities

A survey of statistical ideas and principles. The course will expose students to tools and techniques useful for quantitative research in the humanities, many of which will be addressed more extensively in other courses: tools for text-processing and information extraction, natural language processing techniques, clustering & classification, and graphics. The course will consider how to use qualitative data and media as input for modeling and will address the use of statistics and data visualization in academic and public discourse. By the end of the course students should be able to evaluate statistical arguments and visualizations in the humanities with appropriate appreciation and skepticism. Details. Core topics include: sampling, experimentation, chance phenomena, distributions, exploration of data, measures of central tendency and variability, and methods of statistical testing and inference. In the early weeks, students will develop some facility in the use of Excel; thereafter, students will learn how to use Python or R for statistical analyses.

Credit 3 units. A&S IQ: HUM, AN BU: HUM EN: H

COMPLITHT 5320 Programming for Text Analysis

This course will introduce basic programming and text-analysis techniques to humanities students. Beginning with an introduction to programming using the Python programming language, the course will discuss the core concepts required for working with text corpora. We will cover the basics of acquiring data from the web, string manipulation, regular expressions, and the use of programming libraries for text analysis. Later in the course, students will be introduced to larger text corpora. They will learn to calculate simple corpus statistics as well as techniques such as tokenization, chunking, extraction of thematically significant words, stylometrics and authorship attribution. We will end with a brief survey of more advanced text-classification terminology and topics from natural language processing such as stemming, lemmatization, named-entity recognition, and part-of-speech tagging.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

COMPLITHT 5444 Psychoanalysis and Its Literary Cultures

This course examines interactions between texts from the domains of literature and psychoanalysis. We will read theory and literature side by side, in order to ask the following questions: Does the relationship between literary text and theory necessarily entail the subjection of literature to analysis, or can one, as Pierre Bayard asks, apply literature to psychoanalysis? What can psychoanalytic readings tell us more broadly about the act of reading? How can psychoanalysis enrich our sense of the ethical import of reading and writing, and how can literature challenge psychoanalytic goals and values? In terms of psychoanalytic authors, we will focus on Freud, Lacan, Klein, Winnicott, and Bayard. In terms of literature, we will range widely from Sophocles to Henry James.

Credit 3 units.

Typical periods offered: Spring

COMPLITHT 5478 Topics in Transmedia Franchises

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

COMPLITHT 5490 Topics in Comparative Literature

Topics in Comparative Literature vary by semester

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

COMPLITHT 5501 Interdisciplinary Topics in the Humanities

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

COMPLITHT 5510 Seminar in Comparative Literature

Credit 3 units.

Typical periods offered: Spring

COMPLITHT 5511 Seminar in Comparative Literature I

Seminar in Comparative Literature, Topic will vary per semester.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITHT 5512 Seminar in Comparative Literature

Graduate seminar for graduate students only. Varied Topics.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITHT 5525 Humanities By the Numbers: Essential Readings in Digital Humanities

To what extent can computational techniques that draw on statistical patterns and quantification assist us in literary analysis? Over the semester, we will juxtapose the close reading of historical documents or literary works with the distant reading of a large corpus of historical data or literary texts. We will ask how the typically human scale of reading that lets us respond to literary texts can be captured on the inhuman and massive scales at which computers can count, quantify and categorize texts. While this class will introduce you to basic statistical and computational techniques, no prior experience with technology is required. Prerequisites: two 200 level or one 300-level course in literature or history. This is a topics-type course and the specific documents and works examined will vary from semester to semester. Please see semester course listings for current offerings.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

COMPLITHT 5590 Internship in Digital Humanities

A practicum in digital humanities. Graduate students will work on one or more faculty research projects sponsored by the Humanities Digital Workshop. While we will try to assign students to projects that align with their research interests, we will also aim for assignments that will help students extend their skills. Students seeking a DASH internship should consult with the director of the DASH program.

Credit 6 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5700 Methods of Literary Study

The seminar deals with recent theories of Modernism, Postmodernism, New Historicism, Multiculturalism, and Postcolonialism. We will read and discuss books and articles by Calinescu, Lyotard, Hutcheon, Greenblatt, Taylor, Habermas, Ashcroft/Tiffin, and Grossberg/Nelson/Treichler. Readings in English. Graduate standing 6 units of literature, or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

COMPLITTHT 5701 Interdisciplinary Topics:

The current topic for this class will provide students the opportunity to work on a project that uses GPT to study literature. Generative AI systems like ChatGPT are changing the way we understand human creativity and the cultural record. The project leverages GPT to analyze literary history: the project uses computational tools (e.g., natural language processing) to compare synthetic texts generated by GPT to authentic texts written by canonical authors (including Charles Dickens, Jane Austen, and Mark Twain). Our goal is to better understand GPT's construction of the literary and to better understand how specific authors are remembered and canonized. Students will gain hands-on project experience, including project management and organization experience. The course will begin with readings on GPT and on Computational Literary Analysis and will evolve to focus primarily on supervised project work.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5720 Cultural Theory/Cultural Studies

Credit 3 units.

COMPLITTHT 5850 Mellon Dissertation Seminar

Credit 3 units.

COMPLITTHT 5900 Independent Work

Prerequisites: senior standing and permission of chair of the committee.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5901 Research

The first part of a two-semester course sequence in reading and translating German. For graduate students in the humanities, social sciences, and natural sciences. May not be taken for graduate credit.

Credit 9 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5902 Digital Humanities in the Classroom

For declared DASH Graduate Certificate students. See DASH Director for enrollment.

Credit 3 units.

Typical periods offered: Fall, Spring

COMPLITTHT 5921 Translation Module 1

The first of a series of three 1-unit courses devoted to the practice of translation. The student will translate a published text of 20-30 pages (or, exceptionally, an unpublished text) from either literature, literary criticism, or literary theory related to the course material, pre-approved by the faculty member teaching the class, due at the end of the semester in which the class is taught.

Credit 1 unit.

Typical periods offered: Fall, Spring

COMPLITTHT 5922 Translation Module 2

The second of a series of three 1-unit courses devoted to the practice of translation. The student will translate a published text of 20-30 pages (or, exceptionally, an unpublished text) from either literature, literary criticism, or literary theory related to the course material, pre-approved by the faculty member teaching the class, due at the end of the semester in which the class is taught.

Credit 1 unit.

Typical periods offered: Fall, Spring

COMPLITTHT 5923 Translation Module 3

The third of a series of three 1-unit courses devoted to the practice of translation. The student will translate a published text of 20-30 pages (or, exceptionally, an unpublished text) from either literature, literary criticism, or literary theory related to the course material, pre-approved by the faculty member teaching the class, due at the end of the semester in which the class is taught.

Credit 1 unit.

Typical periods offered: Fall, Spring

COMPLITTHT 7000 Master's Continuing Student Status

Credit 0 units.

Typical periods offered: Fall

COMPLITTHT 7010 Master Nonresident

Credit 0 units.

Typical periods offered: Fall

COMPLITTHT 8010 Doctoral Nonresident

Credit 0 units.

Typical periods offered: Fall

Germanic Languages and Literatures

GERMAN 5010 Introduction to the Teaching of German

This course will introduce students to basic teaching strategies employed in the German department at Washington University and allow students to evaluate these personally by means of required observations of German 102. Discussions and research will call upon students to understand how basic language learning fits into the overall curriculum on a departmental and university level at Washington University as well as in other programs. The examination and evaluation of language textbooks will introduce students to market issues as well as differences in methodology/philosophy represented by the textbook and new issues involving technology.

Credit 1 unit.

Typical periods offered: Fall, Spring

GERMAN 5020 Teaching Practicum

This course supports beginning university instructors during their first German courses at Washington University. It will be comprised of activity composition, discussion and microteaching with a focus on the following topics: a review of processing instruction, the national standards and the four skills in a cultural context, technology in the foreign language classroom, and appropriate strategies for feedback, assessment and motivation.

Credit 1 unit.

Typical periods offered: Fall

GERMAN 5030 Theory and Practice of Foreign Language Pedagogy

This third course in the pedagogical series takes a look back and forward to inform future language instruction. Instructors in their second semester of teaching German at Washington University will consider various theories that have been employed for the purpose of second/foreign language acquisition and how these have been incorporated into or overlooked in contemporary SLA methodology. Students will be introduced to important journals as well as professional organizations that assist language instructors at all levels and will present one journal article of their choice to the class. They will also have an opportunity to begin construction of the materials portfolio - gathering exemplary syllabi, lesson plans and evaluations, and creating their first drafts of a statement of teaching philosophy to start them on these aspects of job market preparation. The course will be comprised of active class discussion and group and individual document development.

Credit 2 units.

Typical periods offered: Spring

GERMAN 5040 Apprenticeship in Course Design

For more information, please check with the department.

Credit 3 units.

Typical periods offered: Spring

GERMAN 5050 Apprenticeship in the Teaching of Literature and Culture I

Apprenticeship in teaching literature and culture in English. For students who have completed at least 1 year of teaching at Washington University.

Credit 1 unit.

Typical periods offered: Fall, Spring

GERMAN 5060 Apprenticeship in the Teaching of Literature and Culture II

Apprenticeship in teaching literature and culture in German. For students who have completed at least 1 year of teaching at Washington University.

Credit 1 unit.

Typical periods offered: Fall, Spring

GERMAN 5063 German Literature and Culture, 1914 to the Present

Exploration of modern and contemporary literature within sociohistorical contexts. Genres and themes vary and may include the representation of history, the crisis of modernity, the two World Wars, the Weimar Republic, the Third Reich, generational conflicts, the women's movement, and postmodern society. Reading and discussion of texts by authors such as Wedekind, Freud, Mann, Kafka, Brecht, Seghers, Boell, Bachmann, Grass, Wolf. Discussion, readings, and papers in German.

Credit 3 units.

Typical periods offered: Spring

GERMAN 5070 German Reading Knowledge for Graduate Students I

The first part of a two-semester course sequence in reading and translating German. For graduate students in the humanities, social sciences, and natural sciences. May not be taken for graduate credit.

Credit 3 units.

Typical periods offered: Summer

GERMAN 5080 German Reading Knowledge for Graduate Students II

Mastery of more specialized vocabulary and of complex German sentence structure. Emphasis on tools and strategies for researching German language texts. Students who complete L21 5071 and 5081 should be able to read German academic texts proficiently. Prerequisite: L21 5071 or permission of DGS required.

Credit 3 units.

Typical periods offered: Summer

GERMAN 5081 Topics in German Studies

Focus on particular cultural forms such as literature, film, historiography, social institutions, philosophy, the arts, or on relationships between them. Course examines how cultural meanings are produced, interpreted, and employed. Topics vary and may include national identity, antisemitism, cultural diversity, construction of values, questions of tradition, the magical, the erotic, symbolic narrative, and the city. Course may address issues across a narrow or broad time frame. Discussion, readings, and papers in German.

Credit 3 units.

Typical periods offered: Fall, Spring

GERMAN 5382 Contemporary Literature

This seminar deals with contemporary German literature of the last three decades. Prerequisite: graduate student standing. Max Kade Writer/Critic course taught each Spring Semester. Topics vary by year/semester.

Credit 3 units. Arch: HUM Art: HUM EN: H

Typical periods offered: Spring

GERMAN 5530 Theories of Literary and Cultural Analysis: Narrative Theory - A Critical and Analytical Toolbox

This seminar familiarizes graduate students with concepts and methodologies that are foundational for research in the humanities. Our discussions will be organized around a range of conceptual categories that have constituted the focus of scholarly reflection in the past few decades, categories such as text, genre, image, medium, discourse, discipline, subjectivity, gender, race, culture, politics, and history. Our consideration of these categories will also require us to examine key currents in recent literary theory and cultural criticism, including (post)structuralism, psychoanalysis, Marxist theory, feminism and gender theory, postcolonial studies, cognitive science, book history, visual studies, and media theory. Although this seminar does not aim to offer an intellectual history, seminar members will acquire a sense of some of the key trends in cultural theory since 1945, as well as an awareness of the limits and possibilities that characterize each of them. The course also includes an introduction to the tools of scholarly research. Readings and discussions in English.

Credit 3 units.

Typical periods offered: Fall, Spring

GERMAN 5700 Seminar: Literature in the Making III

This seminar is designed for graduate students enrolled in the International Writers PhD Track in German and Comparative Literature to put their creative work into conversation with their studies in German language, culture, and literature with an eye to the long-term goal of the hybrid dissertation. Participants will read and discuss practical criticism, present their current creative projects and hone their skills as writers, translators and readers by engaging with a living literature as it evolves. At the conclusion of the course, students will have the choice of presenting a polished work of translation, a piece of original writing (in English or in German), or an essay on one or more of the works read during the semester. German students not officially in the International Writers Track are not eligible to take this course.

Credit 3 units.

Typical periods offered: Fall, Spring

GERMAN 5710 Seminar in Medieval Culture

The Middle High German era from 1150 to 1350 produced the first great literary works in the German language. The syllabus will be organized around what may well be the key concept of the period, *minne*. *Minne* predominately refers to courtly love, a class-specific set of erotic practices or attitudes—even an ethical system—that characterize the courts of medieval Germany and Europe. Far less research, however, has been conducted on the equally powerful legal and theological meanings of *minne* as conflict resolution by means of reconciliation. Our seminar will inquire whether classic German texts such as Hartmann's *Iwein*, Walther's lyrics, or the *Nibelungenlied* (as a negative exemplum) deploy the multiple meanings of *minne* to argue for a more peaceful society based on love rather than warfare and vengeance. Since most courtly love literature assumes or creates heterosexual norms, gender relations will be a theoretical and thematic aspect of our thinking. Why would heterosexual love serve well as the allegory for peace? We will consider non-literary texts in prose such as sermons, chronicles, and legal compilations; plus some late medieval selections, especially from the *Minnereden*. The historical and legal research on medieval conflict resolution by Gerd Althoff, Stephen D. White, William Ian Miller, and Fredric L. Cheyette and others will constitute the interdisciplinary context of our reading and discussion. Readings in MHG as far as possible but translations will also be available.

Credit 3 units.

Typical periods offered: Fall

GERMAN 5720 Seminar in Reformation & Humanism

During the early modern period, 1500-1750, prose fiction developed as one of the dominant literary forms. We will read and review several important literary expressions along this evolutionary trajectory that mark the narrative changes leading from late medieval/early modern *Prosaromane* (*Volksbücher*) to early forms of the novel. We will explore the relationship of facts and fiction, the influence of magic, demonologies, and travel writings as well as issues of gender construction and their effect on the development of prose narratives.

Credit 3 units.

Typical periods offered: Fall, Spring

GERMAN 5730 Seminar in the Late 18th Century

This seminar is designed to provide students with an in-depth introduction to the complete text of Goethe's *Faust*. Our reading and discussion of the drama will unfold against the backdrop of three distinct but interrelated contexts. 1) We will consider *Faust* from a literary-historical perspective, situating the work within Goethe's own literary oeuvre as well within the frameworks of eighteenth- and early nineteenth-century German literature more generally and of the long history of literary *Faust* adaptations. 2) We will also approach *Faust* from an intellectual-historical perspective, attempting to understand how it engages with the key philosophical discussions and debates of the period during which it was written: theodicy, the dialectic of enlightenment, and the legitimacy of the modern age. 3) Finally, we will read a selection of scholarly essays that demonstrate how *Faust* sheds light on various theoretical and scholarly pre-occupations, from the relationship between literature and economics to questions of gender and sexuality. One of the aims of the seminar is to expose students, on the basis of an exemplary case study, to a wide range of models of scholarly inquiry. Readings of the primary text will be supplemented with video of performances as well as adaptations of the *Faust* material to other media.

Credit 3 units.

Typical periods offered: Spring

GERMAN 5740 Seminar in the 19th Century

Examination of violence as a constituent element in literary evocations of community and the formation of reader communities during a century of multiplying print forms and venues, increasing literacy and expanding publics, political and social upheaval, armed conflict, emigration and colonialism, and re-definitions of allegiance and identity in German-speaking territories and communities. Exploration of the portrayal of violence and crime as endemic in human social formations, including the family, and as an indication of a given community's sickness and health. Particular attention will be paid to international and national literary genres (gothic, *Geheimnisliteratur*, detective fiction, village tale, novella, case history) that treat these themes, and the publication venues and modes of circulation of these works. Supplementary readings will help to analyze and contextualize literary treatments of violence. Works by Kleist, Auerbach, Droste-Hülshoff, Heine, Gotthelf, Storm, Raabe, Fontane, Ebner-Eschenbach, and others. Readings largely in German, discussion in English. Accommodations can be made for interested graduate students in other programs who do not read German at the graduate level. Please see instructor.

Credit 3 units.

Typical periods offered: Fall

GERMAN 5750 Seminar in the 20th Century

For writers, artists, activists, and intellectuals, expressing their political commitments often requires a strong notion of resistance. While the term resistance has become ubiquitous in contemporary discourse, a closer look at its history since the early 20th century allows for a critical perspective on the complex and contradictory structure of its usage by writers and intellectuals of various ideological leanings. Focusing on the "short 20th century" (1914-1989), this course explores the various understandings of resistance in the context of modern European literature and thought. Students will analyze a range of novels, plays, stories, poems, essays, treatises, pamphlets, and manifestoes with the goal of formulating a - however preliminary - aesthetic theory of resistance. We will discuss how resistance and oppression are related, how aesthetics and politics intersect, how art and ideology permeate one another, and how subversion constantly seeks new ways to express itself. Authors include Luxemburg, Brecht, Seghers, Benjamin, Jünger, Schmitt, Malaparte, Camus, Weil, Arendt, Weiss, or Krasznahorkai. Readings and discussions in English.

Credit 3 units.

Typical periods offered: Fall, Spring

GERMAN 5760 Seminar in Romanticism

German Romantic literature goes in many different directions. At its beginning, we have a new appreciation of the world of the arts by Wackenroder and Tieck, a literature that will have an impact on the Romantic Nazarene school of painters a decade later. We have (with Friedrich Schlegel, Dorothea Schlegel and Novalis) ambitious writers who want to give the educational novel (*Bildungsroman*) as established by Goethe a more poetic twist. At the same time, they are inventing and rediscovering the world of the fairy tale (*Volks- und Kunstmärchen*) in the case of Tieck, Fouqué, and the Grimm Brothers. Then there are authors like Chamisso, ETA Hoffmann, and Hauff who show the clash of a romantic concept of life with the new realities of capitalism in trade and industry. Finally, stories by Eichendorff are reflecting the cultural European heritage with its friction between Antiquity and Christianity. We will discuss these stories and novels in their literary and historical contexts (politics and art), and will consult theoretical writings both of the authors and from secondary literature. This is a graduate course, but undergraduate senior majors can be admitted with permission of the instructor.

Credit 3 units.

Typical periods offered: Spring

GERMAN 5770 Seminar in Cultural Theory

Graduate-level seminar. Topics vary by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

GERMAN 5780 Literary Seminar

This graduate seminar covers innovative engagements with new media over roughly the past century, incorporating both theoretical frameworks and aesthetic responses. On the one hand, the course will cover major works of media theory from this period, particularly as they apply to literature, with an emphasis on German authors. Theorists are likely to include Benjamin, Heidegger, Adorno, McLuhan, Kittler, Siegart, and Krämer. On the other hand, we will consider how new media have shaped aesthetic practices, particularly in literary movements identified as experimental or avant-garde. The focus in this respect will be on German-language contributions to movements such as Dada and Concrete poetry, including the works of Raoul Hausmann, Max Bense, and Ferdinand Kriwet. In addition, we will consider works by authors such as Yoko Tawada that foreground the role of written media, and by contemporary writers and artists such as Julius Popp and Amaranth Borsuk who work at the intersection of textual and digital media. Readings can be done in German or English; discussion will be in English.

Credit 3 units. EN: H

Typical periods offered: Fall, Spring

GERMAN 5800 Seminar in the Teaching of German

A practical and theoretical introduction for the new teacher of college-level German. Includes basic linguistic principles, classroom management, teaching of smaller units, testing principles, teaching methodologies, professional orientations, and use of multimedia. Extensive observation and the preparation and delivery of a cultural teaching unit.

Credit 3 units.

Typical periods offered: Fall

GERMAN 5801 Master's Thesis Research

Credit 6 units.

Typical periods offered: Fall, Spring

GERMAN 5810 Advanced Pedagogy Seminar: Integrating Technology Into Language Instruction

Seminar offers professional development in language pedagogy with a focus on enhancing the teaching of the four skills (listening, speaking, reading, writing) and culture through technology. Participants will develop critical skills for assessing, creating, and integrating multimedia courseware into the language classroom. Course formats include readings, discussion, demonstrations, and hands-on sessions with multimedia technologies (e.g., software, WWW, CD-ROM, video). Open to advanced graduate students in all language departments who have completed their required classes. Students with questions regarding eligibility should consult with the instructors.

Credit 3 units.

Typical periods offered: Spring

GERMAN 5900 Independent Study

Requires a paper or a written examination.

Credit 6 units.

Typical periods offered: Fall, Spring

Comparative Literature, PhD

Contact:

Graduate Program Administrator:

Comparative Literature and Thought

Phone:

314-935-5170

Email:

complitt@wustl.edu

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 48 units
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B– is required for coursework to count toward the degree.

Required Courses

The PhD in Comparative Literature program requires 48 units of course credit. This includes COMPLITTHT 5200 Introduction to Comparative Literature (3 units), as well as 9 additional units in core comparative literature seminars. Students who complete interdisciplinary graduate certificates will be required to enroll in additional units as specified by the certificate-granting department or program. PhD students put together a course of study with at least two areas of concentration, which include the remaining 36 units of elective course credit.

These rules regarding required courses taken at Washington University apply to students joining the department with a bachelor's degree. Students entering with a master's degree may already have fulfilled some of these requirements. The fulfillment of Washington University requirements with courses completed elsewhere should be discussed with the Director of Graduate Studies, who will make a determination about the transfer of credits.

Core Seminar Courses

- COMPLITHT 5200 Introduction to Comparative Literature (3 units)
- One course each in any three of the following four categories (9 units), one of which must be a 5000-level seminar with Comparative Literature. In rare cases, subject to approval, a course outside of Comparative Literature might fulfill one of these categories:
 - a. Category I: Transcultural Studies
 - b. Category II: Translation Studies
 - c. Category III: Literature, Politics, and Society
 - d. Category IV: Media Ecologies, Media Histories, Media Poetics

In addition, students must participate in a dissertation prospectus workshop in their sixth semester.

International Writer's Track

Students admitted in the International Writer's Track take four semesters of COMPLITHT 5210 Literature in the Making (3 units), or the equivalent, as one area of concentration.

Language Requirement

At a minimum, students need to demonstrate — in addition to superior skills in English — superior ability in at least a second language and reading skills in a third language. Beyond the minimum, the choice and number of languages required correspond to each student's areas of concentration. Each language, including English, will be verified by an expert in that language.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

For information beyond what is presented in this Bulletin, please consult the program document, which can be accessed via the departmental website.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy requirements include the completion of required coursework; the completion of the qualifying exams; the completion of the dissertation prospectus workshop; the submission of the Title, Scope, and Procedure form; and the completion of the oral defense of the dissertation prospectus. Students must advance to doctoral candidacy prior to the seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Program Requirements

- **Total Units Required:** 30

Students enrolled in the regular PhD program do not receive an MA along the way to the PhD. For cases in which a student chooses to or is advised to leave the program prior to earning the PhD, however, an MA in lieu of a PhD can be obtained on the basis of a written exam followed up by an oral defense, as long as the student has completed at least 30 units of coursework, including COMPLITTH 5200 Introduction to Comparative Literature and three additional courses (9 units) in Comparative Literature on the graduate (5000) level.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Students earning a PhD in Comparative Literature, be it in the International Writers Track or the regular track, enter the program with a wide variety of life, professional, and academic experience. Likewise, they aspire to a variety of outcomes upon graduation. Some seek academic positions in the United States or elsewhere around the globe; some see their futures in other cultural sectors in which advanced skills in communicating, writing, and researching are at a high premium. Still others see themselves as public intellectuals or freelancers in the future and thus as needing maximum versatility to seize opportunities that come their way. In view of these diverse aspirations, the program offers a variety of options in mentored experiences and advises all students in consultation with faculty advisors to create an individual development plan that involves generating diverse portfolios that maximize their options upon

graduation. We advise PhD students to self-assess when assembling their individual development plans and to choose one of the tracks described below with the idea of securing options, enhancing strengths, and addressing weaknesses.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

All students must complete Preparatory Engagement. In our program, Preparatory Engagement will consist of participation in workshops offered by the Center for Teaching and Learning prior to the start of the first semester of teaching. These will include the following:

1. At least two online Introductory Foundations in Teaching Workshops on effective strategies for active learning, facilitating discussions, classroom management, and presentation skills;
2. A disciplinary group discussion focused on Comparative Literature and Thought or a related field; and
3. An orientation to Canvas course management.

After these activities are completed, ongoing mentoring in pedagogy will take place within the MTE assignments. Assistants in Instruction (AIs) who plan a career involving teaching will be further encouraged (but not required) to take advantage of the offerings of the Center for Teaching and Learning, including the tracks in the Professional Development in Teaching Program and occasional workshops within Comparative Literature and Thought.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Units assigned to AIs will be either 10 or 15, depending on what students do in the course to which they are assigned.



- **10 units:** The AI observes 3 hours a week for 14 weeks, during which time the AI confers with the instructor of record about the syllabus and class goals, keeps office hours, assists students with papers, assists with group work in class, and leads at least two discussions or gives two lectures (or a combination thereof).
- **15 units:**
 - The AI teaches a discussion section attached to a lecture, attends all lectures and helps with logistics as necessary during the lecture, keeps office hours, assists with papers, and assists in grading.
 - The AI attends all classes and helps with logistics as necessary, keeps office hours, assists with papers, assists with grading, teaches all or part of at least two class sessions, and creates a fully fleshed-out and portfolio-worthy syllabus for a Comparative Literature and Thought course teachable at an institution such as Washington University.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

The student serves in an MIT capacity (i.e., as the instructor of record under faculty mentorship) in a Comparative Literature and Thought course or in a course for a related program, such as Women, Gender, and Sexuality Studies; the Writing Program; or Global Studies.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

MPEs are 20 units and involve 150 to 180 hours of commitment per semester. Opportunities for MPEs will either be publicized by the Office of Graduate Studies or vetted internally by the Comparative Literature and Thought. These MPEs may include, for example, a semester interning at the St. Louis History Museum in the public education department or a semester working in Special Collections at Olin Library putting together an exhibit with both online and in-person components.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Comparative Literature and Thought offers two tracks of mentored experiences that require 50 to 80 units for completion:

1. **Diverse Teaching/Professional:** This arrangement is intended to provide students with maximum flexibility in designing a path that aligns with their career plans. No student is required to enroll in more units than any other; differences in total units taken will be the result of different choices about which opportunities will be most productive for their professional goals. Students who wish to acquire additional teaching experience can sign up for a TIP. Any combination MPEs/MTEs completed via any combination of 10- and 15-unit AI experiences, 20-unit MIT experiences, or 20-unit MPE experiences, with the following restrictions:
 - a. Four total experiences;
 - b. At least one MPE is required; and
 - c. Total MER units for a pathway must be between 50 and 80.
2. **Professional Experience**
 - a. Four MPEs totaling 80 units

Track 1: 50-80 MER Units (AI + MIT or MPE)

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take one time
ASGS 8020	Take one time
ASGS 8120	Take one time

Pathway #2

ASGS 8010	Take one time
ASGS 8015	Take two times
ASGS 8120	Take one time

Pathway #3

ASGS 8010	Take one time
ASGS 8120	Take three times

Pathway #4

ASGS 8010	Take one time
ASGS 8015	Take one time
ASGS 8120	Take two times

Pathway #5

ASGS 8010	Take one time
ASGS 8020	Take one time
ASGS 8120	Take two times

Pathway #6

ASGS 8010	Take three times
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #7

ASGS 8010	Take two times
ASGS 8015	Take one time
ASGS 8120	Take one time

Pathway #8

ASGS 8010	Take two times
ASGS 8020	Take one time
ASGS 8120	Take one time

Pathway #9

ASGS 8010	Take three times
ASGS 8120	Take one time

Pathway #10

ASGS 8015	Take one time
ASGS 8020	Take one time
ASGS 8120	Take two times

Pathway #11

ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #12

ASGS 8015	Take one time
ASGS 8120	Take three times

Pathway #13

ASGS 8015	Take two times
ASGS 8020	Take one time
ASGS 8120	Take one time

Pathway #14

ASGS 8015	Take two times
ASGS 8120	Take two times

Pathway #15

ASGS 8015	Take three times
ASGS 8120	Take one time

Pathway #16

ASGS 8020	Take one time
ASGS 8120	Take three times

Pathway #17

ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #18

ASGS 8020	Take three times
ASGS 8120	Take one time

Track 2: 80 MER Units (Only MPE)

Pathway #19

ASGS 8120	Take four times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students who have completed Tracks 1 or 2 above may choose to apply for the TIP if they wish to expand their teaching portfolio. In this track, students will be able to further explore the breadth and depth of teaching best practices and pedagogy related broadly to Comparative Literature and Thought.

Optional Pathways for TIP

Pathway A

ASGS 8015	Take two times

Pathway B

ASGS 8015	Take one time
ASGS 8020	Take one time

Pathway C

ASGS 8020	Take two times

Pathway D

ASGS 8015	Take one time

Pathway E

ASGS 8020	Take one time

Data Science in the Humanities, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** 1 year during PhD study
 - PhD students in good standing should apply before the end of their second year. MA students are not eligible.
 - Applicants should write a letter detailing their interest in data science or digital humanities as well as any relevant background; their letter should be supplemented by a letter of support from the Director of Graduate Studies of their doctoral program of study.
 - In addition, applicants must complete the Application for Admission to a Graduate Certificate Program, which includes the projected date of completion of the major degree as well as student, doctoral program of study department chair, and DASH certificate program director signatures.
 - In order to receive the Data Science in the Humanities (DASH) Graduate Certificate, students must fulfill all the PhD requirements of their doctoral program of study. The certificate is granted to the student upon completion of their PhD program.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B–

Data Science in the Humanities (DASH) Graduate Certificate

In response to increasing graduate involvement in the Humanities Digital Workshop (HDW) and its associated faculty-led projects, we offer a graduate certificate combining traditional humanities inquiry with computational methods and analysis. All graduate students in the humanities, regardless of PhD program of study, are welcome to pursue this certificate. A data-driven approach can complement and enrich any humanities field, and the certificate features appreciable cross-disciplinary engagement. Recent projects have been supervised by faculty in fields as diverse as History, Music, German, East Asian Languages and Cultures, American Studies, Philosophy-Neuroscience-Psychology, Women Gender and Sexuality Studies, and English. Our goal is to enrich the analytic skills that students can bring to bear on research in their home disciplines, and to enable them to contribute thoughtfully and resourcefully in other disciplines of the humanities.

The curriculum addresses data management, statistics, text analysis, geospatial analysis, digital prosopography, data visualization and information design. This curriculum will acquaint any PhD student with new methodologies and techniques, and will foster an awareness of the theoretical implications of using them.

This certificate program emphasizes both collaborative research and pedagogical training. You will work on a faculty project in the HDW, a requirement most often filled through participation in the HDW summer workshop, an eight-week program that pairs faculty with a small group of graduate and undergraduate fellows. The collaborative work environment, combined with weekly project meetings and skills workshops, make these immersive summer programs an unusual counterpoint to traditional graduate work. The DASH Certificate also requires the completion of the 3-unit course COMPLITHT 5902 Digital Humanities in the Classroom, thus ensuring that pedagogical training accompanies more traditional coursework.

Required Courses

15 units are required to complete the DASH graduate certificate. Most students are able to count 6 units dually between the requirements of the certificate and the doctoral degree requirements. Students should consult with their doctoral advisor and the DASH graduate certificate advisor to determine which courses may be applied to both degrees.

Minimum Grade Requirement: B–

DASH Pedagogy (3 units)

- COMPLITHT 5902 Digital Humanities in the Classroom (3 units)

DASH Core (at least 3 units and up to 7 units)

- COMPLITHT 5301 Data Manipulation for the Humanities (1 unit)
- COMPLITHT 5310 Statistics for Humanities Scholars: Data Science for the Humanities (3 units)
- COMPLITHT 5320 Programming for Text Analysis (3 units)

DASH Pedagogy via Internship (at least 2 units and up to 6 units)

- COMPLITHT 5590 Internship in Digital Humanities (1-6 units)
 - This course may be repeated for up to 6 credits. Students intern on a faculty Digital Humanities research project through the Humanities Digital Workshop either during the academic year or in the summer.

Electives

If students do not earn the necessary 15 units within the courses listed above, electives may be taken to achieve 15 units with the permission of the DASH Program Director. **Note:** Graduate students must use the 5000-level and above designation of each course to count for program credit per the requirements of the Office of Graduate Studies, Arts & Sciences. Consult the DASH Program Director for details.

Contact: Joseph Loewenstein
Phone: 314-935-9344
Email: jfloewen@wustl.edu

Early Modern Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 12 units
- **Certificate Length:** 2 semesters
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** All courses must be completed with a grade of B or better.

Graduate Certificate in Early Modern Studies

The Graduate Certificate in Early Modern Studies enables students to develop interdisciplinary and transnational expertise outside of their home departments; such expertise can generate innovative work at the dissertation level and beyond. Through courses, reading groups, summer seminars, conferences, and teaching opportunities, certificate students will come into a wider intellectual community of early modern faculty and graduate students from several departments.

Students who satisfy certificate requirements will earn the Graduate Certificate in Early Modern Studies along with a PhD in their home department. The certificate takes advantage of two long-standing strengths in Early Modern Studies at Washington University: a long tradition of interdisciplinary work and a commitment to cross national and geolinguistic boundaries. In particular, Comparative Literature and Thought — where the certificate is housed — has created strong cross-departmental links between Eastern and Western departments and programs.

Required Courses

Courses counting for the interdisciplinary requirement or the extra-department requirements require prior approval by the Early Modern Studies Graduate Certificate Director.

Methods Course

COMPLTTHT 5700 Methods of Literary Study will introduce students to the interdisciplinary field of early modern studies and some of its current organizing principles and issues. This course will rotate among different faculty members and will be offered every other year, unless demand makes a more frequent schedule necessary.

Interdisciplinary Course

A course that models early modern interdisciplinary inquiry is required. This will either be taught by one faculty member, who will invite other faculty in for guest sessions during the course of the semester, or it will be team-taught.

Extra-Departmental Courses

Students must complete two early modern courses outside of their home department.

Other Requirements

Regular attendance and active participation in either the Early Modern Reading Group or the Eighteenth-Century Interdisciplinary Salon is required. The goal is to promote professionalization and give certificate students an opportunity to form collegial relationships with faculty and fellow graduate students outside their primary field and to present their work to these interdisciplinary groups.

Contact: Robert Henke
Phone: 314-935-9336
Email: rhenke@wustl.edu

German and Comparative Literature, PhD

Contact: Graduate Program Administrator:
Germanic Languages and Literatures
Phone: 314-935-5170
Email: german@wustl.edu

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 51
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B–

Dual PhD in German and Comparative Literature

The total number of units of course work required for the dual degree is a minimum of 51 units, exclusive of comprehensive examinations and dissertation.

Required Courses

- Four courses comprising the Comparative Literature core requirement (12 units total):
 - COMPLITHT 5200 Introduction to Comparative Literature (3 units)
 - One course each in any three of the following four categories (9 units), one of which must be a 5000-level seminar with Comparative Literature. In rare cases, subject to approval, a course outside of Comparative Literature might fulfill one of these categories:
 - i. Category I: Transcultural Studies
 - ii. Category II: Translation Studies
 - iii. Category III: Literature, Politics, and Society
 - iv. Category IV: Media Ecologies, Media Histories, Media Poetics
- All required courses for the PhD in Germanic Languages and Literatures

Theory and Methods (3 units)

- One seminar addressing theories of literary and cultural analysis: COMPLITHT 5050 Theory and Research Methods in the Humanities (3 units) or equivalent

Pedagogy (3 units)

- GERMAN 5020 Teaching Practicum (1 unit)
- GERMAN 5030 Theory and Practice of Foreign Language Pedagogy (2 units)

Thematic and Methodological Areas

At least one seminar must be taken from any *three* of the following four categories. In rare cases, subject to the approval of the department chair and the Director of Graduate Studies, a course from outside of German might fulfill one of these categories. Course descriptions for each seminar offered in the department will indicate which of these categories is covered in the seminar:

1. Category I: Translation Studies
2. Category II: Media Studies and Digital Humanities
3. Category III: Nationalism, Ethnicity, and Race
4. Category IV: Critical Theory and Intellectual History

Two courses (6 units) in total may count for both programs, with two Comparative Literature courses being allowed to count for either the German distribution area or the German elective units. Courses that will double count must be approved by the Director of Graduate Studies.

In addition, students must participate in a dissertation prospectus workshop in their sixth semester.

Languages Requirement

Students must demonstrate reading proficiency in a language other than German or English.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Dual PhD Comparative Literature degree students will take the comprehensive examinations required in the PhD in Germanic Languages and Literatures program. At least one of these examinations must entail a comparatist element; this element is to be identified and negotiated with the examination committee, which will include at least one faculty member representing Comparative Literature.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy requirements include the completion of required coursework; the completion of the qualifying exams; the completion of the dissertation prospectus workshop; the submission of the Title, Scope, and Procedure form; and the completion of the oral defense of the dissertation prospectus. Students must advance to doctoral candidacy prior to the seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

Note: The dissertation committee should include at least one faculty member representing Comparative Literature. The dissertation itself should — in its theoretical grounding, approach, transnational or transcultural scope, and/or interdisciplinarity — speak to the field of Comparative Literature as currently constituted.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Master's Degree Along the Way/ In Lieu Of a PhD

- **Total Units Required:** 30

Students enrolled in the regular joint PhD program do not receive an MA along the way to the PhD. For cases in which a student chooses to or is advised to leave the program prior to earning the PhD, however, an MA in lieu of a PhD can be obtained on the basis of a written exam followed up by an oral defense, as long as the student has completed at least 30 units of coursework.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

German Languages and Literatures Philosophy of Teaching includes the following:

- Close mentoring of graduate students as they develop as teachers, scholars, and professionals.
- Preparing students for a variety of career options both within academia and in other sectors. We believe that both teaching and internship opportunities are critical for developing skills that translate across professional fields: organization, time management, flexibility and adaptability, public speaking, and the ability to give and receive constructive feedback. All students should have the opportunity to (and be encouraged to) take advantage of both Mentored Professional Experiences and Mentored Teaching Experiences during their course of study.
- Specific values for Mentored Teaching Experiences:
 - Thoughtful and intentional pedagogical training that includes an introduction to teaching in the profession, theories of second-language acquisition, and practical methods for classroom management and teaching.

- Preparing students who hope to pursue academic jobs for teaching expectations at a variety of types of institutions (including those where they may be asked to do multiple language courses in addition to language/culture content courses).
- Maintaining a supportive, collaborative teaching culture (facilitated through observation, conversation, and constructive feedback sessions).
- Providing opportunities for students to develop increasing independence and responsibility as teachers, beginning with co-teaching and potentially having the chance to teach as the instructor of record.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

All students are required to take GERMAN 5020 Teaching Practicum and GERMAN 5030 Theory and Practice of Foreign Language Pedagogy.

1. GERMAN 5020 Teaching Practicum (1-credit course; corequisite taken during first year of AI/MIT)
2. GERMAN 5030 Theory and Practice of Foreign Language Pedagogy (2-credit course; corequisite taken during first year of AI/MIT)

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Each German AI opportunity consists of 15 units and involves differing responsibilities. A minimum of two AI engagements or 30 units are required to complete the core.

Language Teaching and Observation AI

- Language Teaching:
 - The AI meets weekly with the instructor of record about the syllabus and class goals, assists with group work in class, generally teaches one or two sessions per week, keeps office hours, and assists with assessments and grading.
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 - The AI observes an English-language content course or an upper-level German seminar three hours a week for 14 weeks, during which time the AI confers with the instructor of record about the syllabus and class goals, assists with group work in class, leads at least two discussions or gives two lectures or a combination thereof, keeps office hours, and assists with assessments and grading. In addition, the AI creates a portfolio-worthy syllabus for a course teachable at an institution such as WashU.

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MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

German's MIT is *optional* and available to students who have completed the 30 MER unit core. An MIT engagement is equal to 20 MER units:

- Instructor of Record for GERMAN 3130 Conversational German
 - *Tasks:* The student designs the syllabus and is fully responsible for creating course content.
 - *Teaching frequency:* 90 minutes per week (1-credit course)
- Instructor of Record for Language Course GERMAN 1010-2010
 - *Tasks:* The student is fully responsible for teaching the course, using the syllabus and materials developed by the faculty mentor.
 - *Teaching frequency:* 3 hours per week (3-credit course)
- Instructor of Record for English-Language Course in Women, Gender, and Sexuality Studies; the Writing Program; or Global Studies
 - *Tasks:* The student follows the guidelines of the department through which the course is offered.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

MPE placements may be on or off campus; recent placements include the Arts & Sciences College Office, Olin Library, Special Collections, Center for the Humanities, Public Scholarship, the Missouri Botanical Garden, and the Missouri History Museum. Students will be matched according to their scholarly interests and/or the professional skills they are looking to develop. Students sign an agreement that lays out their responsibilities prior to beginning the internship that is signed by them and their mentors. They write a reflection on the experience at the end of the semester.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Requirement: 80 to 85 units total of MTE and MPE Experiences with a core and three potential tracks:

- *"Core"* = 30 units of AI experiences (minimum one language course AI and one round of observing/syllabus writing AI). Most students will complete Core A. Cores B and C are available options for students who come with more teaching experience or who would like more varied observational experiences in advanced courses or in courses outside of the German department.
- *Three potential tracks* = 80 to 85 units of varied numbers of advanced AI (15 unit), MPE (20 unit), or MIT (20 unit) experiences, depending on the student's professional goals.

Track 1 — Goal: Diverse Teaching/ Professional Portfolio = 80 units

- *Core:* 1× Teaching AI/Language course (15 units) + 1× Observation AI (15 units) = 30 units
- Track requirements can be fulfilled through the following:
 - 2× Teaching AI (15) + 1× MPE (20) = 50 units

Track 2 — Goal: Independent Teaching = 80 units

- **Core:** 1× Teaching AI/Language course (15 units) + 1× Observation AI (15 units) = 30 units
- Track requirements can be fulfilled through the following:
 - 2× Teaching AI (15) + 1× MIT (20) = 50 units

Track 3 — Goal: Focus on Professional Experiences / Teaching Creative Praxis = 85 units

- **Core:** 1× Teaching AI/Language course (15 units) + 1× Observation AI (15 units) = 30 units
- Track requirements can be fulfilled through the following:
 - 2× MPE (20) + 1× Teaching AI (15) = 55 units

Pathway #1

ASGS 8015	Take four times
ASGS 8120	Take one time

Pathway #2

ASGS 8015	Take four times
ASGS 8020	Take one time

Pathway #3

ASGS 8015	Take three times
ASGS 8120	Take two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students may apply to this track (with a short statement of intent to the Director of Graduate Studies that will be approved by the German faculty) after completing a Required Pathway. This TIP does not count toward the other units required for MTE.

Optional Pathway

ASGS 8020	Take one time

German and Higher Education Administration, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** 2 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

Minimum Grade Requirement: B–

Master of Arts (MA) in German and Higher Education Administration

The MA in German and Higher Education Administration (HEA) offers qualified students with a strong background in German the opportunity to combine advanced study of German language, literature and culture with courses in higher education administration. In its fusion of discipline-specific postgraduate study with practical career-oriented preparation in a rapidly growing area of higher education, the program enables students to develop new career paths while further expanding their knowledge of German language, literature and culture.

Course Requirements

The MA requires 24 graduate-level course units in German language and culture and at least 12 units of higher education administration and other relevant courses in psychological and brain sciences, statistics, education, business, social work, nonprofit management and other disciplines. Courses will be supplemented by internships with academic and administrative units on the Washington University campus and with other higher education institutions in North America or the German-speaking world. During the final semester of courses, students complete a capstone project.

Suggested Sequence of Courses

Note: The actual course progression may follow a different schedule.

Fall Semester, First Year

- Two graduate-level German courses (6 units)
- One course in higher education administration or related areas (3 units)

Spring Semester, First Year

- Two graduate-level German courses (6 units)
- One course in higher education administration or related areas (3 units)
- Internship

Fall Semester, Second Year

- Two graduate-level German courses (6 units)
- One course in higher education administration or related areas (3 units)
- Internship

Spring Semester, Second Year

- Two graduate-level German courses (6 units)
- Capstone project (3 units)
- Internship

Higher Education Administration Electives

These electives must be chosen from an approved list of courses in psychological and brain sciences, statistics, education, business, social work, nonprofit management and other disciplines. At least one of the chosen electives must focus on management/leadership, financial management or legal issues in the field.

Semester Internships

Students in the program intern in various units on campus, which results in a total of three Washington University internship experiences over the course of the degree. These internships in units such as Student Affairs, Residential Life, Admissions, and the College of Arts & Sciences entail approximately 10 to 15 hours of mentored engagement per week.

Capstone Project

During their last semester, each student produces an individual project (e.g., a research paper, a proposed initiative or program) under the guidance of a faculty member. Although this project does not have the same length or scope as a traditional MA thesis, it is considered a significant and meaningful capstone experience.

Contact:	Graduate Program Administrator: Germanic Languages and Literatures
Phone:	314-935-5170
Email:	german@wustl.edu

Germanic Languages and Literatures, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** 1 year
 - This program is *only for graduate exchange students from the University of Cologne*. 9 units of transferred credit hours will be applied for students to work towards the 30 unit requirement: 21 units will be obtained over 2 semesters of study at Washington University.

- **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

- **Minimum Grade Requirement:** B–

Required Courses

- GERMAN 5020 Teaching Practicum (1 unit)
- GERMAN 5030 Theory and Practice of Foreign Language Pedagogy (or equivalent) (2 units)
- GERMAN 5801 Master's Thesis Research (0-6 units)

Consult the "Thesis Requirements/Details" (p. 182) section below for more information.

German Seminar Courses

Students are required to take four additional 5000-level German Seminar courses (12 units).

Transfer Credits

The student will transfer 9 units of credit from their previous coursework from the University of Cologne, as determined by the Director of Graduate Studies in Germanic Languages and Literatures.

Thesis Requirements/Details

During both semesters, students in the Germanic Languages and Literatures, MA, program are required to participate in German Master's Thesis Research:

- GERMAN 5801 Master's Thesis Research (0-6 units)

Contact: Graduate Program Administrator:
Germanic Languages and Literatures
Phone: 314-935-5170
Email: german@wustl.edu

Germanic Languages and Literatures, PhD

Contact: Graduate Program Administrator:
Germanic Languages and Literatures
Phone: 314-935-5170
Email: german@wustl.edu

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 39
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 credits but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** B–

Required Courses

The PhD requires 39 units of courses that are home-based in German. Students who complete interdisciplinary graduate certificates will be required to enroll in additional units as specified by the certificate-granting department or program.

These rules regarding required courses taken at Washington University apply to students joining the department with a bachelor's degree. Students entering with a master's degree may already have fulfilled some of these requirements. The fulfillment of Washington University requirements with courses completed elsewhere should be discussed with the Director of Graduate Studies, who will make a determination about the transfer of credits.

Students are encouraged to take a thematic and historical spread of courses in German-language literature and culture; these courses should be chosen in consultation with the Director of Graduate Studies. In addition, the following courses are required of all students:

- Dissertation Prospectus Workshop

Theory and Methods

- One seminar addressing theories of literary and cultural analysis (COMPLITHT 5050 Theory and Research Methods in the Humanities [3 units] or equivalent)

Pedagogy (3 units)

- GERMAN 5020 Teaching Practicum (1 unit)
- GERMAN 5030 Theory and Practice of Foreign Language Pedagogy (2 units)

Thematic and Methodological Areas

At least one seminar must be taken from any *three* of the following four categories. In rare cases, subject to the approval of the department chair and the Director of Graduate Studies, a course from outside of German might fulfill one of these categories. Course descriptions for each seminar offered in the department will indicate which of these categories is covered in the seminar.

- Category I: Translation Studies
- Category II: Media Studies and Digital Humanities
- Category III: Nationalism, Ethnicity, and Race
- Category IV: Critical Theory and Intellectual History

International Writer's Track

Students admitted in the International Writer's Track take four semesters of COMPLITHT 5210 Literature in the Making (3 units) or the equivalent. 6 of these 12 units will count toward the 39-unit total.

Foreign Language Requirement

Students must display reading proficiency in at least one language other than German and English.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program,

which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

For information beyond what is presented in this Bulletin, please consult the program document, which can be accessed via the departmental website.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy requirements include the completion of required coursework; the completion of the qualifying exams; the completion of the dissertation prospectus workshop; the submission of the Title, Scope, and Procedure form; and the completion of the oral defense of the dissertation prospectus. Students must advance to doctoral candidacy prior to the seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

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Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

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- Total Units Required: 30

Students enrolled in the regular PhD program do not receive an MA along the way to the PhD. For cases in which a student chooses to or is advised to leave the program prior to earning the PhD, however, an MA in lieu of a PhD can be obtained on the basis of a written exam followed up by an oral defense, as long as the student has completed at least 30 units of coursework.

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An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

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 - AI observes an English-language content course or an upper-level German seminar 3 hours a week for 14 weeks, during which time the AI confers with the instructor of record about the syllabus and class goals, assists in group work in

class, leads at least two discussions or gives two lectures or a combination thereof, keeps office hours, and assists with assessments and grading. Additionally, the AI creates a portfolio-worthy syllabus for a course teachable at an institution such as WashU.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

German's MIT is *optional* and available to students who have completed the 30 MER unit core. An MIT engagement is equal to 20 MER units:

- Instructor of Record for GERMAN 3130 Conversational German
 - *Tasks:* Student designs the syllabus and is fully responsible for creating course content
 - *Teaching frequency:* 90 minutes per week (1-credit course)
- Instructor of Record for Language Course GERMAN 1010-2010
 - *Tasks:* Student is fully responsible for teaching the course, using syllabus and materials developed by faculty mentor
 - *Teaching frequency:* 3 hours a week (3-credit course)
- Instructor of Record for English-language Course in Women, Gender, and Sexuality Studies, the Writing Program, or Global Studies
 - *Tasks:* Follows guidelines of the other department

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

MPE placements may be on or off campus; recent placements include the Arts & Sciences College Office, Olin Library, Special Collections, Center for the Humanities, Public Scholarship, the Missouri Botanical Garden, and the Missouri History Museum. Students will be matched according to their scholarly interests and/or the professional skills they

are looking to develop. Students sign an agreement that lays out their responsibilities prior to beginning the internship that is signed by them and their mentors. They write a reflection on the experience at the end of the semester.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Requirement: 80 to 85 units total of MTE and MPE Experiences with a core and three potential tracks:

- *"Core"* = 30 units of AI experiences (minimum one language course AI and one round of observing/syllabus writing AI). Most students will complete Core A. Cores B and C are available options for students who come with more teaching experience or who would like more varied observational experiences in advanced courses or in courses outside of the German department.
- *Three potential tracks* = 80 to 85 units of advanced AI (15 unit), MPE (20 unit), or MIT (20 unit) experiences, depending on the student's professional goals.

Track 1 — Goal: Diverse Teaching/ Professional Portfolio = 80 units

- *Core:* 1× Teaching AI/Language course (15 units) + 1× Observation AI (15 units) = 30 units
- Track requirements can be fulfilled through the following:
 - 2× Teaching AI (15) + 1× MPE (20) = 50 units

Track 2 — Goal: Independent Teaching = 80 units

- *Core:* 1× Teaching AI/Language course (15 units) + 1× Observation AI (15 units) = 30 units
- Track requirements can be fulfilled through the following:
 - 2× Teaching AI (15) + 1× MIT (20) = 50 units

Track 3 — Goal: Focus on Professional Experiences / Teaching Creative Praxis = 85 units

- *Core:* 1× Teaching AI/Language course (15 units) + 1× Observation AI (15 units) = 30 units
- Track requirements can be fulfilled through the following:
 - 2× MPE (20) + 1× Teaching AI (15) = 55 units

Pathway #1

ASGS 8015	Take four times
ASGS 8120	Take one time

Pathway #2

ASGS 8015	Take four times
ASGS 8020	Take one time

Pathway #3

ASGS 8015	Take three times
ASGS 8120	Take two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students may apply to this track (with a short statement of intent to the Director of Graduate Studies that will be approved by the German faculty) after completing a Required Pathway. This TIP does not count toward the other units required for MTE.

Optional Pathway

ASGS 8020	Take one time

Translation Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion

(graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** 2 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
 - This program is offered to PhD students only.
- **Minimum Grade Requirement:** B–

Translation Studies Graduate Certificate

With its interest in crossing the borders between languages, cultures, and national literatures, the discipline of comparative literature implicitly performs and assesses theoretically the function and value of "translation" in the widest sense of the term. The Graduate Certificate in Translation Studies offered by Comparative Literature and Thought explicitly supports both the practical turn to translation and the critical and theoretical assessment of translation in the context of globalization, multiculturalism, cultural hybridity, postcolonial theory, and interdisciplinarity.

Admission

Admission into the Translation Studies Graduate Certificate program requires completion of the Application for Admission along with a listing of courses the student plans to take in anticipation of obtaining the Translation Studies Graduate Certificate. The student must bring these materials to a discussion with the Director of Translation Studies for acceptance into the program.

Required Courses

The certificate requires 15 course credits overall, 6 of which may count toward both the certificate and the PhD degree and 9 of which may be allocated only to the certificate. Applicants must already be enrolled in a PhD program at Washington University.

Requirement 1

Students complete two core courses, which may be taken in order of preference and which also integrate translation practice:

- COMPLITTHT 5010 Methods of Literary Study: The Theory and Practice of Literary Translation
This course is a review of translation theories, with a study of translation practices of various literary forms (prose, poetry, drama) and media. Prerequisite native or near-native competence in English and another language. Also open to qualified students not in the Certificate program.
- COMPLITTHT 5020 Methods of Literary Study: The Theory and Practice of Literary Translation II
This course offers a review of translation theories and the study of translation practices of various literary forms (prose, poetry, drama) and media. Prerequisite native or near-native competence in English and another language. A more general approach to translation and cultural exchange in a globalizing world than Part I. Topics will include the ideological underpinnings of translation, the political uses of language in intercultural communication, and the multiple uses of translations of all kinds of literature in a multicultural world. Students will choose a text that has already been translated for critique in addition to producing their own translation; students will be expected to report orally on the process and the product of this project several times during the semester.

Requirement 2

Students complete three 1-unit translation modules in sequence: COMPLITTHT 5921 Translation Module 1, COMPLITTHT 5922 Translation Module 2, and COMPLITTHT 5923 Translation Module 3.

Modules are designed for the student to gain further experience with translation; texts may be in Arabic, Chinese, English, French, German, Greek, Ancient Greek, Italian, Japanese, Latin, Persian, and Spanish.

Students may elect to substitute a semester of COMPLITTHT 5210 Literature in the Making for the three translation modules, with permission from the Director of Translation Studies Graduate Certificate.

Registration

After completing Requirement 1, the student will meet with the Director of the Translation Studies Certificate in consultation with the DGS in Comparative Literature and Thought, and will verify that all requirements have been met. In preparation for this meeting, the student must complete the Module Enrollment Form, indicating their translation project scope and faculty mentor. Once approved by the Director of the Translation Studies Certificate, the student will be authorized to enroll in COMPLITTHT 5921 Translation Module 1, COMPLITTHT 5922 Translation Module 2, and COMPLITTHT 5923 Translation Module 3 for completion of the translation modules.

Note: Each translation module enrollment requires its own Module Enrollment Form and permission.

Requirements

The student will translate a published text (or, exceptionally, an unpublished text) of 10 to 15 pages from either literature, literary criticism, or literary theory preapproved by the appropriate faculty mentor.

Organization

The student will translate a published text (or, exceptionally, an unpublished text) of 10 to 15 pages from either literature, literary criticism, or literary theory, preapproved by the appropriate faculty member. The student should additionally write a brief introduction to accompany the translation. (The introduction should consist of a brief review of the sociohistorical context of the original, the methodologies employed, and the challenges encountered and addressed)

- The student will consult the faculty member about an appropriate text for translation. The student's choice of text must be approved by the faculty member who will read and grade the translation upon its completion.
- The student may choose to complete one or each of these modules in conjunction with a 5000-level literature or theory course/courses appropriate for producing a translation.

Translation Guidelines

The translation for foreign language-based literature or theory classes will be organized as follows:

1. A native speaker of English might translate a text from a national (foreign) literature into English.
2. A student whose native/national language is not English, might translate an English text into that national language, or a text from his/her national/native language into English.
3. Translation from a language other than English to a second language that is not English can only be done with permission of the Director, DGS, and the appropriate faculty members.

Evaluation

The evaluation of the translation produced in each module will be done by the faculty member who has agreed to supervise the translation. When this is not possible, the evaluation of the student's work will be done by the appropriate professor from a list of faculty approved by the Translation Certificate Director and available from the DGS of Comparative Literature and Thought (see list below). The Comparative Literature DGS in conjunction with the Director of the Translation Certificate may also designate another member of the graduate faculty in the corresponding national literature program to certify the exam.

Requirement 3

Students complete two electives (6 units) selected from the course listings available on the Translation Studies website.

A major translation project (30+ published pages plus introduction) conducted under faculty supervision (COMPLITTH 5900 Independent Work, 3 units) can be taken to replace one of the courses from the list of elective courses identified under Requirement 3. Normally, this option can be undertaken only as the last element in work toward the Certificate; any student wishing to carry out a project of this scope would need the approval of the Translation Studies Certificate Director.

Contact: Graduate Program Administrator:
Comparative Literature and Thought
Phone: 314-935-5170
Email: complittandthought@wustl.edu

Earth, Environmental, and Planetary Sciences

The Department of Earth, Environmental, and Planetary Sciences offers a PhD with a master's along the way. This department is one of the few departments in the country with an integrated program of graduate instruction and research that treats Earth as a planet and that makes direct use of knowledge gained by exploring the solar system. Our field is changing rapidly and becoming more interdisciplinary as links emerge among geology, geochemistry, geophysics, and geobiology. New opportunities are developing as research in natural hazards, energy sources, and the environment become more important to the global economy and as new space missions are developed to explore the solar system. The relatively small size of the department engenders a friendly and personal place that offers a lot of personal interaction with faculty and researchers. Our graduate students have the opportunity to use cutting-edge laboratory equipment, high-speed parallel computers, and the latest planetary mission data throughout the course of their research. They travel to field sites around the world and publish research in the leading scientific journals.

The PhD program is open to qualified students who have previously specialized in Earth sciences, physics, chemistry, biology, environmental science, soil science, mathematics, or engineering. Both students with traditional degrees in geoscience areas and students with diverse academic backgrounds regularly enroll in our program because of the inherently interdisciplinary nature of our field. Doctoral education has a strong research emphasis that begins immediately upon arrival and that emphasizes modern, quantitative approaches to studying Earth, planetary, and environmental systems. Graduate research may involve field and laboratory studies as well as theory and advanced computation. Students earn the MA degree during the first phase of the PhD program; the department generally does not admit students for standalone MA degrees. After degree completion, our graduates go on to careers in academia, research laboratories, government agencies, and the private sector, serving as leaders in the field of earth, environmental, and planetary sciences.

Website: <https://eeps.wustl.edu/>

Faculty

Chair

David A. Fike
Glassberg/Greensfelder Distinguished University Professor of Earth, Environmental, and Planetary Sciences
PhD, Massachusetts Institute of Technology

Director of Graduate Studies

Alexander S. Bradley
Associate Professor
PhD, Massachusetts Institute of Technology

Director of Undergraduate Studies

Philip A. Skemer
Associate Chair and Professor of Earth, Environmental, and Planetary Sciences
PhD, Yale University

Department Faculty

Paul Byrne
Associate Professor
PhD, Trinity College, Dublin

Jeffrey G. Catalano
Professor
Director of Environmental Studies
PhD, Stanford University

Dougal Hansen
Assistant Professor
PhD, University of Wisconsin-Madison

Bronwen L. Konecky
Associate Professor
PhD, Brown University

Michael Krawczynski
Associate Professor
PhD, Massachusetts Institute of Technology

Claire Masteller
Assistant Professor
PhD, University of California, Santa Cruz

William B. McKinnon
Professor
PhD, California Institute of Technology

Roger Michaelides

Assistant Professor
PhD, Stanford University

Rita Parai

Associate Professor
PhD, Harvard University

Dougal Hansen

Assistant Professor
PhD, University of Wisconsin-Madison

William Hayden Smith

Professor
PhD, Princeton University

Viatcheslav S. Solomatov

Professor
PhD, Moscow Institute of Physics and Technology and the Schmidt
Institute of Physics of the Earth

Kun Wang

Associate Professor
PhD, Washington University in St. Louis

Douglas A. Wiens

Professor
Robert S. Brookings Distinguished Professor
PhD, Northwestern University

Michael E. Wyession

Professor
PhD, Northwestern University

Degree Requirements

- Earth, Environmental, and Planetary Sciences, PhD (p. 195)

Courses

EEPS 5000 Special Topics in the Geosciences

Content varies each time course is offered, as announced by Department. With permission of the Chair, course may be repeated for credit.

Credit 3 units.

EEPS 5004 Special Topics

The content of this course varies each time it is offered, as announced by the Department. With permission of the advisor, this course may be repeated for credit. Variable credit.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall, Spring

EEPS 5014 Earth Systems Science

This is a quantitative introduction to physical and chemical interactions among the atmosphere, oceans and solid earth. Topics covered include terrestrial atmospheric chemistry, geochemical cycles, inventories, and reservoirs of carbon, nitrogen, & sulfur, and bulk composition of the Earth.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5034 Glaciology

Glaciology is the study of ice, glaciers, and their influence on earth systems. This course will explore the fundamental principles underlying the mechanical and thermodynamic behavior of glaciers. In addition, the course will introduce the impact of glaciers and ice sheets on Earth's systems, including geomorphic change in the cryosphere, climate interactions, and global sea level changes.

Credit 3 units.

Typical periods offered: Fall

EEPS 5074 Remote Sensing

Use of different parts of the electromagnetic spectrum (visible, ultraviolet, infrared, and radio wavelengths) for interpretation of physical and chemical characteristics of the surfaces of Earth and other planets. Digital image systems and data processing.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5084 Earth's Atmosphere & Global Climate

Structure and dynamics of Earth's atmosphere. Basic factors controlling global climate of Earth. Quantitative aspects of remote sensing of atmosphere. Remote sensing instrumentation.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5094 Surface Processes

How do landscapes evolve? This course focuses on the physical processes of erosion and deposition that shape Earth and planetary surfaces. Course aims (1) understanding emergent landscape patterns, (2) reconstructing past conditions using the sedimentary record, and (3) predicting landscape change under climate scenarios. Review of relevant climatic and tectonic processes, followed by detailed discussion of rivers and deltas, hillslopes, weathering, glaciers, and coasts.

Credit 3 units. A&S IQ: NSM BU: SCI

EEPS 5104 Earth Remote Sensing Methods and Instrumentation

Detection of electromagnetic radiation reflected, scattered, or emitted by components of the Earth system. Spectroscopy of remote sensing. Interpretation of received radiation via radiative transfer within a context of real measurements. Theory of instruments and detectors. Comparison of realized equipment to theoretical models.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

EEPS 5110 Minerals in Aqueous Environments

Systematic mineralogy and crystal chemistry of common low-temperature minerals, including clays, zeolites, carbonates, oxides of aluminum, iron, and manganese, and metal sulfides. Reactions between minerals and aqueous solutions, including growth and dissolution, surface complexation, and redox reactions. Role of these reactions in chemical weathering, contaminant fate, microbe-mineral interactions, and biomineralization. Focus will be on processes and mechanisms. Common analytical methods introduced.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5134 Introduction to Soil Science

Physical, chemical, and biological processes that occur within soil systems. Types of soils and their formation. Major components of soil, including soil water, minerals, organic matter, and organisms. Soils in wetlands and arid regions. Mapping of soils and their spatial variability. Cycling of nutrients and contaminants in soils. Sustainable use of soils and their role in climate change.

Credit 3 units. A&S IQ: NSM Art: NSM



EEPS 5173 Soil Science

Physical, chemical, and biological processes that occur within soil systems. Types of soils and their formation. Major components of soil, including soil water, minerals, organic matter, and organisms. Soils in wetlands and arid regions. Mapping of soils and their spatial variability. Cycling of nutrients and contaminants in soils. Sustainable use of soils and their role in climate change.

Credit 3 units. A&S IQ: NSM

EEPS 5224 Sedimentary Geology

Survey introduction to sedimentary processes and materials, including description, formation, and interpretation. Sedimentary materials account for most of the Earth's crust, and much of our understanding of Earth history comes from their examination. Many of our economic resources, such as coal, oil, and natural gas, and many environmental problems, are related to or derive from sediments. Goals: understanding and identifying sediments and processes and using them to interpret stratigraphic, paleoenvironmental, and tectonic information; obtaining the understanding of sedimentology that is relevant to environmental issues; increasing scientific literacy and critical thinking.

Credit 4 units. A&S IQ: NSM Art: NSM

EEPS 5254 Invertebrate Paleontology

Study of fossil invertebrates with emphasis on morphology of hard parts, geochronological and geographical distribution, and taxonomy. Comparison of fossil taxa with living representatives and interpretation of paleobiological patterns. Two class hours and one two-hour lab a week.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5284 Hydrology

Survey of principles that govern the flow of water in river and groundwater systems in deep geologic environments. Basic equations of fluid flow, dynamics, and the characteristics of drainage basins, rivers, floods, and important aquifers. Exploitation of ground water systems.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5304 Environmental Mineralogy

Topics connected with environmental mineralogy, some selected by students. Topics may include: mineral dust such as asbestos, containment materials for nuclear waste disposal, environmental ramifications of the processing and use of phosphate fertilizers, lead in the environment, acid mine drainage, microbial mediation of sulfide oxidation, minerals in the human body, weathering of building materials, materials engineering, and engineering of materials for more effective recycling. Three class hours and one two-hour laboratory a week. Participation in discussions, term paper, two field trips required. Most readings from primary sources.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5370 Igneous & Metamorphic Petrology

Classification, origin, mineralogy, and geological occurrence of major igneous and metamorphic rocks. Laboratory emphasis on identification of rocks and minerals in hand specimens and in thin sections. Three class hours and one two-hour laboratory a week.

Credit 4 units. A&S IQ: NSM Art: NSM

EEPS 5374 Igneous & Metamorphic Petrology

Classification, origin, mineralogy, and geological occurrence of major igneous and metamorphic rocks. Laboratory emphasis on identification of rocks and minerals in hand specimens and in thin sections. Three class hours and one two-hour laboratory a week.

Credit 4 units. A&S IQ: NSM Art: NSM

EEPS 5414 Introduction to Geochemistry

Application of the principles of nuclear and physical chemistry to problems of the composition and differentiation of the Earth. Introduction to nucleosynthesis of the elements, stellar evolution, the periodic properties of the elements, chemical bonding and ionic substitution, geochronology and stable isotope geochemistry, and the age and composition of the Earth, Moon and meteorites.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5420 Chemical Petrology

Application of chemical data to the petrogenesis of selected metamorphic, igneous, and sedimentary rock suites. Topics include: abundance and distribution of elements in crustal materials; crystal-chemical controls on elemental fractionations; elemental mobility and immobility in crustal metamorphic processes; uses and abuses of discriminant diagrams; secular trends in crustal composition. Two class hours and one two-hour discussion period a week.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5424 Aqueous Geochemistry

Introduction to the geochemistry of natural waters and the processes that alter their composition. Key principles of aqueous geochemistry are introduced and then used to describe the main controls of the chemistry of pristine and polluted soil, surface, and ground water environments. Topics covered include mineral solubility, complexation, acids and bases, carbonate chemistry, rock weathering and clay formation, adsorption and ion exchange, redox reactions, microbial energetics and redox zonations, the geochemistry of iron, sulfur, trace elements, and radionuclides, and geochemical kinetics. Geochemical modeling will be introduced.

Credit 3 units. A&S IQ: NSM BU: SCI

EEPS 5440 Methods of Geochemistry

This course is intended to give advanced students a practical understanding and appreciation of major instrument-based research in the geosciences. Topics considered will include general laboratory practice and error analysis but will focus primarily on one or two of the major experimental facilities operated within the department, e.g., mass spectrometers, electron probe, INAA equipment, etc. The topics will vary from offering to offering, and this course may be repeated for credit with the permission of the department. Variable credit 1-5 units.

Credit 5 units.

EEPS 5444 Environmental Geochemistry

Introduction to the geochemistry of natural waters and the processes that alter their composition. Key principles of aqueous geochemistry and their application to describe the main controls on the chemistry of pristine and polluted soil, surface, and ground water environments. Acids and bases, mineral solubility, carbonate chemistry, chemical speciation, redox reactions, adsorption and ion exchange, and the speciation, mobility, and toxicity of metals.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

EEPS 5450 Radiogenic Isotope Geochemistry

Applications of variations in abundance of daughter isotopes of major natural radionuclides. Topics include the use of isotopes such as ⁸⁷Sr, ¹⁴³Nd, ²⁰⁶-²⁰⁷-²⁰⁸Pb, ⁴⁰Ar, ⁴He, etc. as isotopic tracers in petrogenetic studies, and as sources of constraints on the evolution of the Earth's mantle, crust, and atmosphere.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5454 Organic Geochemistry

Introduction to the composition and analysis of organic material in the environment and geological record. Molecular to global-level perspective of organic matter cycling, reactivity, and fluxes; formation and classification of organic matter, its preservation potential, diagenesis, catagenesis, and kerogen formation; coal, petroleum, and gas formation and accumulation; biomarkers in Earth history; genetics and phylogeny of biomarker compounds; overview of analytical techniques including both structural and isotopic aspects; oceanographic and paleoenvironmental applications of organic biomarkers; contaminants and residue analysis.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5464 Stable Isotope Geochemistry

Applications of equilibrium and kinetic isotope fractionation and material balance principles to the distribution of oxygen and hydrogen isotopes in natural systems. Geothermometry and paleotemperatures, mass spectrometry, isotope hydrology and ice cores, fluid-rock interaction, igneous rocks and meteorites. Prerequisites: EEPS 441 and MATH 233.

Credit 3 units. A&S IQ: NSM

EEPS 5524 Introduction to Seismology

Introduction to earthquake and exploration seismology. Seismic wave propagation, data analysis and processing, earthquake mechanisms, seismic constraints on the structure of the Earth, relationship of seismicity to plate tectonics.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5530 Geophysical Data Analysis

Survey of geophysical data analysis techniques with applications to seismology, geodynamics, and remote sensing. Time series analysis techniques, including Fourier transforms, convolution and deconvolution, and filters. Linear and non-linear geophysical inverse problems, including discussion of solution uncertainty and uniqueness.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5534 Interior of the Earth

Composition and temperature of Earth's mantle and core, determined by geophysical methods. Inferences about mantle and core dynamics, especially interactions. Current understanding and history of interior in fields of seismology, geomagnetism, mineral physics, geodynamics.

Credit 3 units. A&S IQ: NSM

EEPS 5544 Exploration and Environmental Geophysics

Basic geophysical techniques used in exploration and environmental geophysics, emphasizing seismic and electromagnetic methods. Basic theory, field procedures, and interpretation of data. Use of geophysical instruments on field trips, followed by reduction and analysis of acquired data. Two class hours and one two-hour laboratory a week, and approximately four one-day field trips during the semester.

Credit 4 units. A&S IQ: NSM Art: NSM

EEPS 5550 Mathematical Methods in Earth, Environmental, and Planetary Sciences

This course introduces a variety of mathematical approaches commonly used in Earth, environmental, and planetary sciences. The course is structured to progress in difficulty throughout the semester, starting with dimensional analysis, order-of-magnitude estimates, and basic analytical methods, then advancing to numerical solutions of differential equations. Examples of problems that can be considered include population growth, radioactive decay, landscape evolution, carbon cycle, thermal and chemical diffusion, wave phenomena, groundwater flow, glacier dynamics, magma transport, thermal convection, and secular cooling of Earth and planets. The specific methods and problems may vary from year to year, tailored to students' interests and needs. A key element of the course is developing the ability to effectively communicate quantitative concepts. This includes presenting the material in a clear and concise manner, both orally and in writing, as well as creating compelling visualizations of quantitative information.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5560 Data Analysis in Earth, Environmental, and Planetary Sciences

Develop skills in data processing, analysis, and problem solving as applied to typical datasets in earth, environmental, and planetary sciences. Students will acquire an understanding of the statistical analysis of data, observational noise, and error propagation, as well as the uncertainty and uniqueness of solutions. Development of techniques for solution of linear and non-linear inverse problems, signal processing, smoothing and filtering of data, removal of noise and unwanted effects, factor analysis, and other statistical methods. Allow students to gain experience applying these techniques to datasets in their research areas.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5584 Planetary Materials

In-depth look at suites of materials from the Moon, Mars, Vesta, and selected other achondrite meteorite groups. Mineralogy, geochemistry, petrography, and petrology of samples and their geologic settings. Relationships between samples and orbital mineralogical and geochemical data. Comparative planetology and origins.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5594 Geodynamics

Fundamental physical processes necessary to understand plate tectonics and a variety of geological phenomena. Heat flow, gravity, elasticity and flexure, rheology of Earth materials.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5604 Introduction to Structural Geology

The landforms that surround us are being modified constantly by tectonic forces. Structural geology provides a framework for investigating, describing, and quantifying these changes. This course provides an introduction to the structures that form at all scales, from millimeter-sized fractures to plate-boundary-scale rifts. Topics include descriptive analysis of microscopic and macroscopic structures, field methods, the physical basis for rock deformation, and global tectonics. Three hours of lecture and one two-hour laboratory a week.

Credit 4 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

EEPS 5610 Advanced Seismology

Advanced treatment of seismology theory and computational methods, including: ray theory, plane waves, cylindrical waves, attenuation, anisotropy, seismic waves in laterally heterogeneous media, surface waves, free oscillations of the earth. Calculation of synthetic seismograms using several methods.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5640 Multidisciplinary Study of Subduction Zones

Earth is a dynamic planet, and the most geologically hazardous areas on Earth are subduction zones. Activity in subduction zones may be sudden and violent, often with dramatic societal consequences. In addition, subduction zones are crucial for understanding Earth as a planet as they control the circulation of material from the surface back into the mantle. This course is a graduate-level survey intended for students concerned with Earth processes at subduction zones. The course integrates principles of geology, geophysics, geochemistry, experimental petrology, mineral physics, geodynamics, and seismology. It will review the current state of scientific knowledge for subduction on Earth. Topics range from the physics and chemistry of downgoing slabs from the surface to the deep mantle, mantle flow and structure in the wedge, earthquakes and deformation, melting and volcanism at arcs, and the geology of subduction initiation.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5650 Mantle Geochemistry

This is a graduate-level seminar-style course on fundamentals of mantle geochemistry. The course will use important papers in the scientific literature to introduce key topics in this field, including ocean island basalt and mid-ocean ridge basalt geochemical systematics, crust-mantle chemical exchange, and early Earth processes. The course will provide a foundation for high-temperature geochemical studies of the Earth's interior and a basis for understanding geochemical ties to adjacent disciplines such as geodynamics and seismology. Some introductory lectures will supplement discussions of readings. A substantial portion of the course will involve student-led discussions and development of scientific communication skills.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5661 Advances in Stable Isotope Geochemistry

The development of non-traditional isotope geochemistry in the past decade has greatly expanded our understanding of many facets of Earth and planetary sciences. Over 1000 papers have been published using non-traditional isotopes to study the origin of the solar system, the formation of planetary bodies, the differentiation of mantle and core, the evolution of the crust, the changes of paleoclimate, the global geochemical cycle of elements, and the genesis of natural resources. This course will survey these new isotope systems in either high-temperature igneous differentiation or low-temperature environments. It aims to help students understand the wide applications of these new isotopes in tracing chemical, biological and physical processes. The course is divided into three parts. Part I will first introduce the principles and theories of non-traditional isotopic fractionation and then it will review analytical methods that are primarily used for non-traditional isotopes such as MC-ICP-MS, TIMS and SIMS. Part II will dive into individual isotopic systems (Li, Mg, Si, Cl, Ca, Fe, Ni, Cu, Zn, Ge, Se, Mo, Hg, Tl and U stable isotopes) and it will focus on one or two of their main applications. Part III will be carried out in the instructor's lab for the last three weeks of the class. The instructor and the students will decide together on the one

topic of the final project carried out all class members. The scope of the final project will depend on the students' own research interests and the instructor's role is to help the students to identify useful non-traditional isotope tools to advance the students' main research goals. Credit 3 units. Art: NSM

Typical periods offered: Fall, Spring

EEPS 5680 Scientific Exploration of the Moon

Detailed look at scientific exploration of the Moon, focusing on surface and orbital experiments and results: landers, astronauts, and rover activities, photogeology, surface processes, what has been learned from Apollo exploration and samples, geophysical experiments, petrology and origin of lunar rock suites, impact craters and basins, lunar meteorites, results from recent missions, and plans for future missions. Origin and geologic history of the Moon, potential resources, and the role of the Moon for understanding planetary and solar system processes and history.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5684 Geospatial Field Methods

This course introduces students to methods for making and analyzing precise geospatial measurements in field settings. It is framed within the discipline of geomatics, the science and technology of acquiring, managing, and analyzing spatially referenced data for high-resolution mapping and modeling. Students will learn both theoretical foundations and practical, hands-on applications of geomatics tools, with the goal of enabling them to apply these methods in their own work and research. The course is project-focused, with a series of exercises designed to teach effective use of high-precision GNSS equipment, total stations, terrestrial laser scanners (TLS), and UAVs (drones). Drones will be equipped with sensors such as RGB cameras, multispectral cameras, and lidar. Students will design data collection strategies, conduct surveys, and become familiar with data processing pipelines and visualization techniques for these data types. After completing the course, students will be prepared to safely and effectively conduct independent surveys and apply geospatial methods across Earth, Environmental, and Planetary Sciences, archaeology, environmental science, ecology, landscape architecture, urban design, agriculture, and other field-based disciplines.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

EEPS 5690 Thermodynamics & Phase Equilibria

Basic equilibrium thermodynamics relevant to geological systems, including derivation of reaction $\log K$ as $f(T,P)$ and activity-composition models for various minerals and co-existing gas/fluid phase. These principles are applied to calculation of phase diagrams for simple systems and interpretations of phase relations for more complex systems determined by experiment and topological constraints.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5700 Planetary Geophysics & Dynamics

Relationships between solar system dynamics and planetary evolution, with emphasis on orbital mechanics, gravity fields of planets and satellites, heat transfer in planetary interiors, and tidal interactions. Topics include resonant orbits and rotation rates, effects of large-body impact, volcanism on Io, and the origin of the Moon.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5734 Planetary Geology

Discussion of the evolution of the terrestrial planets and the outer-planet satellites as evidenced by the geologic records left on the surfaces of these bodies. Focus on major processes affecting planetary surfaces: impact cratering, volcanism, tectonism, and erosion and sedimentation by wind and water.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5744 Planetary Geochemistry

A survey of the geochemistry of the planets and their satellites using data from Earth-based, Earth-orbital, and spacecraft observations.

Credit 3 units. A&S IQ: NSM Art: NSM

EEPS 5760 Advanced Planetary Geology: Ice Worlds

Discussion of icy bodies and terrains in the solar system. Water and other ices as geologic materials, including remote sensing of ices, impacts into ice, cryovolcanism, and ice tectonics. Focus on major satellites of Jupiter and Saturn (Europa, Ganymede, Callisto, and Titan), mid-sized icy satellites, and the martian polar caps.

Credit 3 units.

Typical periods offered: Fall, Spring

EEPS 5853 Earth History

Introduction to the concept of deep time and the parallel biological evolutionary and environmental changes that have occurred throughout Earth history. Topics include early evolution of life, rise of atmospheric oxygen, global glaciation, mass extinctions. Prerequisite: EEPS 202

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Spring

EEPS 5863 The Earth's Climate System

This course introduces an integrative view of the Earth's climate system and its coupled components - the atmosphere, the oceans, the cryosphere, the biosphere, and the geosphere - and how they interact with each other. The goal is to provide the physical scientific background that is needed to understand climate variability and climate change, both natural and anthropogenic. Topics include energy balance; general circulation of the atmosphere and the oceans; the greenhouse effect; modes of variability such as El Nino; geologic-scale climate change in the geologic past; climate models; climate change detection and attribution; projection of future climates; and societal impacts. In addition to lectures, students will gain hands-on experience analyzing and interpreting real datasets through inquiry-based practicum exercises and in-class discussions.

Credit 3 units. BU: SCI

Typical periods offered: Fall, Spring

EEPS 5864 Paleoclimatology

The history of Earth's changing climates and environments on timescales from decades to millions of years. Key concepts in paleoclimatology include: external factors affecting the climate system (e.g., orbital cycles, volcanic eruptions, greenhouse gases); internal feedbacks, such as with monsoons and the El Nino- Southern Oscillation; abrupt versus gradual change; interactions with the biosphere (including hominins/humans); and comparison to present-day climate change. Current controversies in paleoclimate.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

EEPS 5873 Geospatial Science

This course introduces students to the interdisciplinary field of geospatial science, which bridges the fields of geographic information systems (GIS), remote sensing, data science, and spatiotemporal analysis. This course will provide an overview of the fundamental

concepts of geospatial science, including: visualizing and analyzing raster and vector datasets within a GIS database; coordinate systems, reference frames, and projections; the Geoid and geodetic techniques; remote sensing methods; image acquisition and interpretation; spatiotemporal analysis of geospatial data; sampling, interpolation, and time series analysis; uncertainty, error, accuracy, and precision. This course will be available at both the upper-level undergraduate and the graduate levels. Material will be covered through lectures, assignments, and computer exercises that will give students hands-on experience analyzing and interpreting real geospatial datasets. Exercises for students enrolled in the 587 option will be more in-depth and will require some basic programming experience and familiarity with quantitative techniques. These exercises will provide students with a sampling of geospatial science applications, such as environmental studies, cryospheric science, wildlife management, contagious disease monitoring, demography, and human geography. Students will complete a final project of their choosing that synthesizes the concepts and themes learned in this course; students enrolled in the 587 option are encouraged to develop a project proposal that aligns with their own research interests. Students particularly interested in GIS and remote sensing are further encouraged to also consider EnSt 380 and EEPS 407, respectively.

Credit 4 units. A&S IQ: NSM, AN

Typical periods offered: Fall

EEPS 5883 GIS for the Earth, Environmental, and Planetary Sciences

This course will introduce fundamental geospatial concepts, tools, and analyses through hands-on exercises and assignments. The course will focus on common applications of geographic information systems (GIS) in the earth sciences to illustrate core geospatial concepts, provide exposure to key data types and analysis tools, and to build proficiency with industry standard GIS software. Class meetings will feature lectures, article discussions, and hands-on exercises to demonstrate common workflows for obtaining, creating, or editing geospatial datasets and using them to perform spatial analysis and create effective map products.

Credit 3 units.

EEPS 5900 Independent Study

Independent study for graduate students, supervised by a faculty member. Prerequisite: graduate standing and permission of instructor. Credit 12 units.

Typical periods offered: Fall, Spring

EEPS 5910 Graduate Research Project

In conjunction with a faculty advisor, each candidate for the Doctoral program selects, designs, and completes a one-semester research project in a field of interest to the student.

Credit 12 units.

Typical periods offered: Spring

EEPS 5920 Research

Individual research work under the direct supervision of a faculty member. Open only to graduate students. May be repeated for credit. Credit 12 units.

Typical periods offered: Fall, Spring

EEPS 5950 Seminar

Weekly discussions to orient first-year students to graduate school. Topics to be covered include an introduction to the Department, program requirements, time management, working with a supervisor, ethics, the scientific literature, written and oral communication skills, scientific publishing, grant writing, and professional development. Required for all first-year graduate students in EEPS.

Credit 1 unit.

Typical periods offered: Fall

EEPS 8830 Master's Continuing Student Status

Credit 0 units.

EEPS 8840 Doctoral Continuing Student Status

Credit 0 units.

EEPS 8850 Masters Nonresident

Credit 0 units.

EEPS 8860 Doctoral Nonresident

Credit 0 units.

Earth, Environmental, and Planetary Sciences, PhD

Website: <https://eeps.wustl.edu/>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** GPA of 3.0 or better

PhD in Earth, Environmental, and Planetary Sciences

The PhD in Earth, Environmental, and Planetary Sciences equips students for a research career centered on understanding Earth, environmental, and/or planetary processes. The degree provides comprehensive training in both research and teaching, with course requirements designed to provide foundational knowledge. Graduates are well-prepared to tackle complex scientific challenges in academia, government, and industry.

Required Courses

The PhD degree requires the completion of at least six courses (or a minimum of 19 credit units) at the 5000 level, with at least five courses (or 15 credit units) in EEPS and 1 credit of EEPS 5950 Seminar. Credits earned from EEPS 5920 Research do not meet these course requirements. EEPS 5900 Independent Study can only meet these course requirements with the approval of the Graduate Studies Committee. Courses taken outside the department must be in science, mathematics, or engineering.

Students with limited prior coursework in EEPS, mathematics, physics, or chemistry may be required to take additional courses, as determined by their Research Advisory Committee. Those who hold a master's degree in EEPS or a related field may petition, following department procedures, to waive up to one of the five required EEPS courses. The remaining credits required to reach the minimum of 30 credits to complete the program would come from additional credits in EEPS 5920 Research. Students must complete all credit-bearing coursework within four semesters. Coursework taken in the fifth semester will be allowed only by exception.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Students in the Department of Earth, Environmental, and Planetary Sciences qualify for doctoral candidacy at the completion of their sixth semester in residence and once the following pre-candidacy requirements have been met:

- Complete all required coursework.
- Maintain a minimum cumulative GPA of 3.0.
- Pass the qualifying exam (QE).
- Complete the Mentored Experience Requirement (MER).

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Academic Performance

All students are expected to maintain satisfactory academic performance, which includes the following:

- Students must complete all PhD requirements except for the dissertation by the end of the fourth year.
- Students must maintain a cumulative grade point average of at least 3.0 (exclusive of credits in EEPS 5920 Research) and obtain a 3.0 or better in all courses (excluding courses taken through the English Language Program).
- Students may not at any time carry more than 9 credit units for which grades I, X, or N are recorded.
- Students must submit a dissertation proposal in the form of a Title, Scope, and Procedure Form before the start of the eighth semester.
- Students must successfully pass the Qualifying Examination within 90 days following the end of the fourth semester of enrollment.
- Students must make timely progress toward degree completion through the conduct of scientific research and the production of scholarly work (e.g., peer-reviewed journal articles, conference presentations) at the level of excellence expected of a Washington University PhD.
- Students must complete the mentored teaching requirements.
- Students must hold annual review meetings with the Research Advisory Committee.

Students who do not maintain satisfactory academic performance may be placed on academic probation or, in rare cases, face dismissal as described in the Department's Plan for Supervising Academic Progress and the Office of Graduate Studies, Arts & Sciences, Policy on Probation and Dismissal for Academic Reasons.

Master's Degree Along the Way/ In Lieu of a PhD Requirements

The MA degree (both along the way and in lieu of a PhD) requires the completion of at least six courses (or a minimum of 19 credits) at the 5000 level, with at least five courses (or 15 credits) in EEPS and 1 credit of EEPS 5950 Seminar. Credits earned from EEPS 5920 Research cannot count toward these required 19 units of coursework. Students will enroll in EEPS 5920 Research in addition to these required 19 units of coursework to reach 30 total required units for the degree. EEPS 5900 Independent Study can only meet these course requirements with the approval of the Graduate Studies Committee. Courses taken outside the department must be in science, mathematics, or engineering. The MA degree also requires a demonstration of competence in a qualifying examination by the Research Advisory Committee and the completion of 30 units of graduate credit in courses and research.

Students must complete all credit-bearing coursework within four semesters. Coursework taken in the fifth semester will be allowed only by exception.

Visit the Earth, Environmental, and Planetary Sciences page for additional information about this program.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

In EEPS, mentored experiences are essential for PhD education. Our philosophy is grounded in the idea that all PhDs should master the ability to articulate scientific ideas in a clear and engaging manner.

Mentored Teaching Experiences are a platform for students to sharpen their communication skills and deepen their understanding of fundamental concepts in the field.

Mentored Professional Experiences are encouraged but not required. These offer an opportunity for students to apply their theoretical knowledge in practical, real-world contexts, and they are particularly valuable for students who plan careers outside of academia.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

All students are required to do the following:

1. Attend an EEPS graduate student orientation, which includes information about mentored teaching.
2. Attend a 90-minute Center for Teaching and Learning workshop.
3. Enroll in EEPS 5950 Seminar First-Year Seminar, which includes sessions on teaching, communication, and professionalism.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices

in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students will complete two AI assignments at 15 MER units each. Assignments are determined by the department in consultation with course instructors.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement

ASGS 8015	Take two times

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

Students may opt to complete one MPE as a Professional Intensive Pathway.

Optional Pathway

ASGS 8120	Take one time

East Asian Languages and Cultures

The Department of East Asian Languages and Cultures (EALC) offers advanced degrees in the modern and traditional literatures and cultures of East Asia based on substantial knowledge of at least one East Asian language (Chinese, Japanese, or Korean). Students may specialize in one linguistic tradition or pursue transcultural or multidisciplinary studies. EALC offers the **Master of Arts (MA) in East Asian Languages and Cultures** as well as the **Doctor of Philosophy (PhD) in East Asian Languages and Cultures** and the **PhD in East Asian and Comparative Literatures**.

The goal of these programs is to produce scholars who are well trained in their chosen languages, firmly grounded in the relevant linguistic and literary traditions, and thoroughly conversant with the critical discourses (indigenous and Western) relevant to their fields. With research strengths that cover modern and premodern literary studies, gender and sexuality, translation, material culture, identity, digital humanities, and more, our internationally recognized faculty is poised to offer graduate students careful and consistent mentoring. By admitting only a select number of graduate students each year, our programs allow for individualized guidance. After completing these programs at the PhD level, candidates have extended firsthand exposure to the modern societies whose languages, literatures, and cultures they study as well as significant teaching experience in both language and literature or culture classes.

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Faculty

Chair

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Director of Graduate Studies

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Associate Professor of Korean Language and Literature
PhD, Harvard University

Director of Undergraduate Studies

Mijeong Mimi Kim
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MA, National Taiwan Normal University

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MA, Beijing Normal University

Jue Lu

Lecturer in Chinese Language
PhD, Washington University in St. Louis

Zhao Ma

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PhD, Johns Hopkins University

Marvin H. Marcus

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Virginia S. Marcus

Professor of Practice Emerita of Japanese Language
MA, University of Michigan, New York University

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Jingyi Wang

Senior Lecturer in East Asian Languages and Cultures
MA, Capital Normal University

Wei Wang

Teaching Professor of Chinese Language
PhD, Washington University in St. Louis

Mano Yasuda

Lecturer in Japanese Language
PhD, The University of Oklahoma

Degree Requirements

- East Asian and Comparative Literatures, PhD (p. 207)
- East Asian Languages and Cultures, Accelerated BA/MA (p. 212)
- East Asian Languages and Cultures, MA (p. 213)
- East Asian Languages and Cultures, PhD (p. 214)

Courses

Courses include the following:

- East Asian Languages and Cultures (p. 200)
- Chinese (p. 202)
- Japanese (p. 203)
- Korean (p. 206)

East Asian Languages and Cultures

EALC 5200 Nature, Technology, and Medicine in Korea

This course examines the cultural history of modern Korea with a focus on science, technology, and medicine. From about 1500 to the present, a number of hugely consequential things happened in Korea that have been called revolutionary-or what historians dub early modern and modern. Confucian kings planned large-scale projects that changed nature, rustic scholars made inventories of flora and fauna, colonial Koreans became biologists, nurses, and Edisons, and in North and South Korea, new professionals created distinctive-and in some cases, globally-competitive-regimes of knowing, making, and healing. Students will interrogate these developments as an opportunity to revisit the history of modernity, which has been told predominantly from the perspective of the West. What does it mean to be modern in Korea? How did that modernity intersect with Korean science, technology, and medicine? Students will find and articulate their own answers by writing the final research paper. Recommended to have taken Korean Civilization or equivalent course that provides basic working knowledge of Korean history.

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5250 Topics in Religion and Culture in East Asia

Topics course in religion and culture in East Asia; topics vary by semester.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

EALC 5300 Topics in Chinese Media Culture

The screen in modern China has been an important media device for social, political, and cultural transformation. This course invites students to examine Chinese screen culture from the early 20th century to the present. Discussing the screen images, the architectural environment built around the screen, and the screen as an interface that frames social relations, the course will investigate why and how cinema took roots in China, how the Chinese critics took advantage of the attraction of the film screen to instigate cultural reforms, how the socialist regime tried to extend the revolutionary spirit by delivering the screen to the remote villages, and, most recently, how the personal touchscreen introduced a set of new techniques in crafting and exploiting the self-image in the digital economy. This course will introduce critical methodologies to do research on screen culture. It will also give students opportunities to engage with media production, such as podcast and video essays, as a new mode of critical thinking and practice.

Credit 3 units. A&S IQ: LCD BU: IS EN: H

Typical periods offered: Fall, Spring

EALC 5320 Topics in Medical Humanities in East Asia

Topics course on medical humanities in East Asia; subject varies by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5380 Approaches to East Asian Cinema

The world-renowned masterpieces of Kurosawa and Ozu, the kung fu epics of Bruce Lee and Jackie Chan, the recent unprecedented Oscar wins of Bong Joon Ho's Parasite, and countless other films from Japan, South Korea, and the Chinese diaspora have made East Asian cinema one of the region's most visible cultural products of the past seventy years. Popular film plays a large role in constructing the cultural identity of modern societies, but Hollywood casts a long shadow over national cinemas. Critical discussions of East Asian cinema from both within and without the region have frequently approached these works as either the alien Other of Hollywood, or else subordinate to its influence.

In this course we will seek to move beyond East-vs-West and Hollywood-centric approaches to analyzing East Asian cinema. While considering the unique historical development of commercial film industries in the region, we will also take into account the inherently transnational and globalizing nature of cinema. How have filmmakers in Japan, Korea, and the Chinese-speaking world responded to the hegemonic influence of the Classical Hollywood style to create works that operate in a common global vernacular, yet also forge new and distinct modes of expression? In an attempt to answer this question, we will read classic works of criticism that adopt an arguably Orientalist approach to the study of East Asian film, as well as more recent scholarship that attempts to escape the binaries that defined previous discussions. Close analysis of classic and contemporary East Asian film will provide context for these debates as well as introduce some of the major works of Japanese, Chinese, and Korean cinema to students.

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5400 China at the 1904 St. Louis World's Fair: The Emergence of US-China Relations

The St. Louis World's Fair in 1904 dazzled visitors and those who followed it in newspapers. By bringing the world to the American heartland, it greatly furthered a political and cultural agenda of promoting America's progress and superiority to audiences both at home and around the world. The course situates the fair in the context of the emerging US-China relations. The China exhibit bring to light a curated view of China designed specifically to appeal to an American audience who viewed the country as an "old regime," an exotic culture, an emerging capitalist market, and a battlefield for colonial powers. By examining the experience of American federal and state officials, Chinese royals and diplomats, and Chinese exhibitors and laborers who took part in the fair, the course sheds light on the cultural diplomacy utilized by America and China, as both were navigating through the forces of capitalism, racism, imperialism, and nationalism in the rapidly globalizing world by the turn of the 20th century.

Credit 3 units.

Typical periods offered: Fall

EALC 5410 Seminar in Korean Literature and Culture: Major Works

As a course intended primarily for graduate students, this course will examine debates and current issues in the field of Korean literature. While we read extensively on recently published monographs as well as some classics in the field, primary focus is on the modern era. Topics will include empire and colonialism, postcoloniality, translation, history and politics in literature, gender, and conditions of literary and artistic production. Reading knowledge of Korean is recommended but not required. Students without any prior background in Korean literature and/or history should consult with the instructor before registration.

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5520 Studiobar: Knowing Through Objects: The World of an Antique Chinese Wedding Bed

Beds facilitates sleep and relaxation. Across cultures, beds marked social status and drew scrutiny from reformers interested in questions of gender, family, and sexuality. A historical bed might also capture other meanings: its pathways through production, circulation, and consumption illuminates global trading networks. It might allow us to imagine the transmission of craft knowledge, wealth accumulation (or dissipation), and social mobility. The class investigates and restores an antique Chinese wedding bed. This class will combine digital tools with humanistic research methods to facilitate a cultural history that engage questions of intimacy, nuptials, curation and conservation, and trade and cultural exchanges.

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5530 Studiobar: Knowing Through Objects II: The World of an Antique Chinese Wedding Bed

This course is a continuation of EALC 5520. Beds facilitates sleep and relaxation. Across cultures, beds marked social status and drew scrutiny from reformers interested in questions of gender, family, and sexuality. A historical bed might also capture other meanings: its pathways through production, circulation, and consumption illuminates global trading networks. It might allow us to imagine the transmission of craft knowledge, wealth accumulation (or dissipation), and social mobility. The class investigates and restores an antique Chinese wedding bed. This class will combine digital tools with humanistic research methods to facilitate a cultural history that engage questions of intimacy, nuptials, curation and conservation, and trade and cultural exchanges.

Credit 3 units.

Typical periods offered: Spring

EALC 5540 Seminar on East Asian Print Culture and Society

This seminar examines developments in the production, circulation, and consumption of books and other print media in Japan, focusing primarily on the seventeenth to twentieth centuries. Specific topics include transitions from manuscript to print and the growth of commercial publishing in the early modern period; text and image in early modern books; literacy, education and habits of reading; impact of new technologies, media, and patterns of circulation on the development of literature; and to some extent, Japanese book and print culture in the larger East Asian context. Common readings will be in English, but seminar participants who are able to use Japanese sources will be expected to do so.

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5690 Live Streaming Media: From Tencent to Tik Tok

Streaming media—binge-worthy serials, viral short videos, interactive livestreams, and microdramas—has become a dominant mode of contemporary media consumption. But what does it mean to "stream"? How do streaming platforms reshape viewing experiences through their infrastructures (networks, interfaces, and data), their business models, and their algorithmic systems of recommendation? And how are streaming media reorganizing our sense of time, attention, and affect while transforming (and competing with) other time-based media such as cinema, broadcast television, video games, and networked computing? Focusing on major Chinese platforms—long-form services such as iQiyi and Tencent Video; short-form video and livestream platforms such as Douyin/TikTok and Kuaishou; and emerging microdrama apps—this course examines (live)streaming media in China and its global entanglements in the US, Southeast Asia, and etc. We will work through key concepts including liveness, flow, shortness, attention economy, and algorithmic curation to analyze how platforms design engagement and monetize participation. Across case studies, students will investigate evolving narrative and visual strategies, mobile viewing habits (such as speed-watching), livestream commerce, and the social worlds these media both reflect and actively produce. The course also asks how streaming becomes a training ground for—and sometimes an escape from—contemporary realities: platform labor and work culture, romantic fantasies, rural-urban relations, historical memory, and future anxieties. Students will have opportunities to analyze these digital media phenomena critically through analytical writing and also to explore them creatively through media-making projects. Fulfills modern elective for EALC major.

Credit 3 units.

Typical periods offered: Fall

EALC 5710 Topics in Japanese Culture

Topics course on Japanese culture; subject varies by semester.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall, Spring

EALC 5750 Worldviews, World-Building, and World Literature: New Approaches to Chinese Literature (1500-1900)

This course explores how the multivalent notion of world creates new approaches for studying Chinese literature from the 16th century up to the early 20th century. It will consider the following questions: How did the Chinese people perceive, map, and write about the world prior to modernity? What are the strategies to construct fictional, virtual, or gameful worlds through literature and other media? How and why should we position Chinese literature as world literature? Issues covered in this course include premodern worldviews, literary and transmedia world-building, multilingualism, adaptation, and translation. One primary goal of this course for students is to learn how to critically apply theories from narratology, media studies, and comparative literature to study Chinese literature. To this end, the first session will focus on a particular piece of theoretical work or relevant secondary scholarship, and in the second session students will conduct a case study with selected primary sources to practice employing, questioning, and complicating those theories and methods. All readings will be provided in English. Students with classical and modern Chinese skills will be encouraged to read materials in the original to the extent possible.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

EALC 5900 Independent Study

Independent study

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 5930 Guided Readings in East Asian Languages and Cultures

Guided readings in East Asian Languages and Cultures

Credit 3 units.

Typical periods offered: Fall, Spring

EALC 6000 Thesis Research

Thesis research for master's student

Credit 6 units.

Typical periods offered: Fall, Spring

EALC 8000 Dissertation Research

Dissertation research for PhD students

Credit 6 units.

Typical periods offered: Fall, Spring

Chinese

CHINA 5011 Third-Level Modern Chinese I

This course is an intermediate-advanced level modern Chinese language course, which is designed to help students achieve greater proficiency in the oral and written use of the language through reading, listening, speaking and writing. More attention will be concentrated on developing the natural flow of the language, expanding vocabulary, and producing written Chinese of paragraph

length. It aims at transitioning from spoken language to formal language styles. Content covered includes contemporary China's social livelihood, changes since China's Reform and Opening, as well as various aspects of people's lives, such as pollution, transportation infrastructure, urban-rural gap, market economy and consumer products. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 4 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall, Spring

CHINA 5012 Third-Level Modern Chinese II

This course is the continuation of Third Level Modern Chinese I. More attention will be concentrated on improving the natural flow of the language, expanding vocabulary, and producing written Chinese of essay length. The content of this course will cover contemporary China's social livelihood, changes since China's Reform and Opening, as well as various aspects of people's lives, such as transportation infrastructure, corruption issues, education problems in China, and the spiritual and cultural life of the Chinese people etc. Undergraduates enroll in the 300-level section; 500-level section is for graduate students only. Prerequisite: L04 360 (grade of B- or better) or placement by examination.

Credit 4 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

CHINA 5021 Fourth-Level Modern Chinese I

This course is designed for students who have successfully completed Third-Year Chinese or the equivalent. Based on their existing Chinese proficiency level, students will receive further training in all four language skills: listening, speaking, reading, and writing. The regular textbook will be supplemented with writings from Chinese newspapers, magazines, internet sources, and films. By the end of two semesters, students are expected to express themselves both orally and in written form on a variety of topics in humanities in depth and in a culturally appropriate manner. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

CHINA 5022 Fourth-Level Modern Chinese II

This course is a continuation of CHINA 5021. Based on their existing Chinese proficiency level, students will receive further training in all four language skills: listening, speaking, reading, and writing. The texts are authentic materials from Chinese newspapers, magazines, internet sources, and films. Topics include changes in social values, technology and life, public policies, and popular culture etc. By the end of this semester, students are expected to conduct in-depth discussions on social issues and produce eight hundred-character essays. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

CHINA 5031 Fifth-Level Modern Chinese I

This content-based language course is designed for advanced students expecting to improve their skills through conversation, reading and writing of essays, stories, and other types of creative writings in Chinese. The reading material consists of a variety of authentic literature texts (1930s to 2000s), including short stories, prose, and poetry. Narration and description are emphasized in both spoken and written forms. After taking this course, students will be familiar with masterpieces of contemporary Chinese literature and representative writers. In addition, students are expected to produce their own creative writings. Students are required to take the placement exam unless they are advancing from the previous level.



Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H
Typical periods offered: Fall

CHINA 5130 Readings in Classical Chinese - Morality, Reality, and Fantasy

This thematic course develops language proficiency in modern Chinese while studying classical Chinese. Students will improve their understanding of Chinese history and culture through reading Chinese classics and study Chinese classics through a comparative approach to written and multi-media materials, including videos, films and other online resources. Designed for students who have completed fourth-year Chinese for further training in all four language-skills: listening, speaking, reading, and writing, especially focusing on thematic discussion skills.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H
Typical periods offered: Fall, Spring

CHINA 5140 Chinese Language and Culture through Video Games

Games have become an integral part of contemporary life. With rapid technological advancements, video game narratives and aesthetics have grown increasingly diverse and sophisticated, leading to their recognition as the “ninth art.” Chinese Language and Culture through Video Games uses popular video games as cultural texts to explore Chinese civilization and to develop advanced-level Chinese language proficiency. This course bridges ancient Chinese traditions and modern society, integrates linguistic training with cultural analysis, and situates language learning within the broader context of the entertainment and creative industries. It is an advanced Chinese language course that consists of eighteen units; each unit centers on a topic representative Chinese video game that either draws upon traditional Chinese culture or reflects contemporary social issues in China. All readings will be provided in Chinese.

Credit 3 units.
Typical periods offered: Fall

CHINA 5230 Seminar in Chinese Language and Area Teaching

This course provides opportunities to explore Chinese language and area teaching.

Credit 3 units.
Typical periods offered: Fall, Spring

CHINA 5240 Culture and Politics in the People’s Republic of China: New Approaches

This course inquires into the political, ideological, and social frameworks that shaped the cultural production and consumption in the People’s Republic of China (PRC). In the realm of literature, film, architecture, and material culture and everyday life, this course pays a close attention to the contestation and negotiation between policy makers, cultural producers, censors, and consumers. Understanding the specific contour of how this process unfolded in China allows us to trace the interplay between culture and politics in the formative years of revolutionary China (1949-1966), high socialism (1966-1978), the reform era (1978-1992), and post-socialist China (1992 to present). The course examines new scholarship in fields of social and cultural history, literary studies, and gender studies; and it explores the ways in which new empirical sources, theoretical frameworks, and research methods reinvestigate and challenge conventional knowledge of the PRC that have been shaped by the rise and fall of Cold War politics, the development of area studies in the U.S., and the evolving U.S.-China relations.

Credit 3 units.
Typical periods offered: Spring

CHINA 5660 Special Topic in Modern Chinese Literature

Special topics course on modern Chinese literature; subject varies by semester.

Credit 3 units.
Typical periods offered: Fall, Spring

CHINA 5670 The Chinese Theater

This course is a survey of the performance and literary traditions of the Chinese theater from their pre-Tang origins to the present day.

The course focuses on three forms: 14th-century zaju plays, 16th- and 17th-century chuanqi plays, and recent films from China, Taiwan, and Hong Kong. Background in either China studies or theater in other cultures recommended. Undergraduates enroll in the 400-level section; 500-level section is for graduate students only. Fulfills premodern elective for EALC major. Prerequisite: junior level or above or permission of instructor

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H
Typical periods offered: Fall, Spring

CHINA 5900 Independent Study

Independent study. May be repeated for credit.

Credit 3 units.
Typical periods offered: Fall, Spring

CHINA 5905 Guided Readings in Chinese

Guided readings in Chinese

Credit 3 units.
Typical periods offered: Fall, Spring

CHINA 6000 Thesis Research

Must be a current M.A. student in good standing.

Credit 6 units.
Typical periods offered: Fall, Spring

CHINA 8000 Dissertation Research

Must be a current Ph.D. student in good standing.

Credit 6 units.
Typical periods offered: Fall, Spring

Japanese

JAPAN 5013 Third-Level Modern Japanese I

This is the first semester of an academic-year course in pre-advanced Japanese. The course emphasizes the acquisition of all four language skills (listening, speaking, reading, and writing) through meaningful communication. Various projects will be assigned throughout the semester in addition to the course readings, conversation exercises and class discussion. After completing this course, students are able to communicate in Japanese in a linguistically and culturally appropriate manner, to read semi-authentic materials more extensively on topics about Japanese culture, and gather information about the topics of their interest by using a variety of resources. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 4 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H
Typical periods offered: Fall

JAPAN 5014 Third-Level Modern Japanese II

This is the second semester of an academic-year course in pre-advanced Japanese. The course emphasizes the acquisition of all four language skills (listening, speaking, reading, and writing) through meaningful communication. Various projects will be assigned throughout the semester in addition to the course readings, conversation exercises and class discussion. After completing this course, students are able to communicate in Japanese in a linguistically and culturally appropriate manner, to read semi-authentic materials more extensively on topics about Japanese culture, and gather information about the topics of their interest by using a variety of resources. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 4 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

JAPAN 5023 Fourth-Level Modern Japanese I

This is the first semester of an academic-year course in advanced Japanese. The course emphasizes the acquisition of linguistic, pragmatic, and sociocultural competence in all four areas of the language as well as advanced level critical thinking skills. In addition to the textbook, more authentic materials such as movie clips, newspaper articles, etc. are selected for readings and discussion topics. Students will be assigned several projects in accordance with the interests and needs of participating students. After completing the course, students are able to manage various speaking styles according to the situational/relational context and express their opinions clearly and logically in speaking and writing. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

JAPAN 5024 Fourth-Level Modern Japanese II

This is the second semester of an academic-year course in advanced Japanese. The course emphasizes the acquisition of linguistic, pragmatic, and sociocultural competence in all four areas of the language as well as advanced level critical thinking skills. In addition to the textbook, more authentic materials such as movie clips, newspaper articles, etc. are selected for readings and discussion topics. Students will be assigned several projects in accordance with the interests and needs of participating students. After completing the course, students are able to manage various speaking styles according to the situational/relational context and express their opinions clearly and logically in speaking and writing. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: LCD, LS EN: H

Typical periods offered: Spring

JAPAN 5100 Seminar and Practicum in Language Teaching

Seminar includes faculty lectures and student reports on theories and methods of teaching less-commonly taught languages, such as Arabic, Chinese, Japanese, Modern Hebrew, Persian and Turkish. The practicum includes classroom teaching and observation in the language of student's specialization with supervision by the relevant language section head. Prerequisite, open only to graduate students in the Department or instructor's permission.

Credit 2 units.

Typical periods offered: Fall, Spring

JAPAN 5220 Practicum in Literary Translation

The aim of this course is to enable advanced students of Japanese literature to improve their translation skills. Instruction, which rotates among the members of the Japanese literature faculty, entails the translation of a series of selected texts, including fiction, poetry, and essay. Students present their weekly translations for classroom

discussion and critique. While focus is on the technical and stylistic problems presented by each text, students explore larger theoretical and methodological issues raised in the secondary literature.

The major course requirement is the completion of a substantial translation project of publishable quality--presumably in the area of the student's specialization. This course is intended for graduate students in Japanese literature, but other students with sufficient preparation and interest may be admitted with permission of the instructor. Prerequisite: graduate level or permission of instructor. Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5225 Modern Japanese Literary Texts

This seminar will survey selected works by representative Japanese authors spanning the modern period. Our aim will be to increase overall reading proficiency and to enhance the understanding and appreciation of the art and craft of modern Japanese literature. Close readings of our texts will entail the analysis of complex grammar and syntax, idiomatic usage, and literary style. Some readings in literary history, theory, and criticism. All readings will be in Japanese. PREREQUISITE: GRADUATE STANDING OR INSTRUCTOR'S PERMISSION. Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5310 Topics in Japanese Literature & History

This course examines the culture of the Edo period (1600-1868), a time when Japan was largely closed to the outside world, but when economic growth, urbanization, the rise of commercial publishing and the establishment of theaters combined to create one of the most vibrant, innovative periods in Japanese literary and cultural history. We will consider cultural output as a means of both upholding and subverting traditional values, focusing particularly on representations of love, sex, and gender in the floating world of the pleasure quarters, images of samurai honor, stories of ghosts and the supernatural, and nascent ideas about national identity. When relevant, we will also consider images of early modern Japan in modern literature and film. Readings will be in English translation. Previous exposure to Japanese literature or history is helpful but not required.

Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5370 Proseminar: Methods and Materials Used in Conducting Research in Japanese Studies

This course provides an introduction for graduate students to the methods and materials used in conducting research in Chinese and Japanese studies. The course will present fundamental paradigms and problems specific to the study of East Asian languages, literatures, and cultures as well as familiarize students with the vast body of print and web-based research tools necessary to work with original texts in Chinese and Japanese from all periods. Students are encouraged to use the course to pursue individual research interests as they explore the broader contexts, approaches, and questions central to the study of East Asian cultures. Guest lectures by faculty and librarians in East Asian subjects. Prerequisite: graduate level or permission of instructor. Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5450 Topics in Modern Japanese Literature

Topics course in modern Japanese literature; topics varies by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5460 The Japanese Theater

This course is an investigation, using English materials, of the major developments and forms of the Japanese theater, from Noh and its antecedents to the rise of a modern drama. While less concerned with the performative aspects of theatrical arts (though these will be introduced via videos), emphasis is placed on the ways in which dramatic texts influenced and borrowed from the literary tradition. Readings are from major theatrical texts, secondary studies on Japanese theater, and literary sources. Fulfills premodern elective for EALC major. Prerequisite: junior level or above or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

JAPAN 5490 Modern Japanese Women Writers

Japanese women have been scripted by Western (male) imagination as gentle, self-effacing creatures. From their (re)emergence in the late 19th century to their dominance in the late 20th, Japanese women writers have presented an image of their countrywomen as anything but demure. Struggling to define their voices against ever-shifting expectations and social contexts, the women they create in their fiction are valiant, if not at times violent. This course examines the various manifestations of the female image in female-authored modern Japanese fiction. Writers considered are Higuchi Ichiyo, Hirabayashi Taiko, Uno Chiyo, Enchi Fumiko, Yamada Eimi, and others. A selection of novels and shorter fiction are available in English translation, and students need not be familiar with Japanese. Prior coursework in literature/women's studies may be helpful. Undergraduates enroll in the 400-level section; 500-level section is for graduate students only. Fulfills modern elective for EALC major. Prerequisite: junior level or above or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall, Spring

JAPAN 5500 Masterworks of Early Japanese Literature: The Tale of Genji and Its Afterlives

This course is an intensive study of one of the central texts of classical Japanese literature. Selection of texts rotate among works including: The Tale of Genji, court diaries, poetry anthologies, Noh drama, The Tale of the Heike, setsuwa collections, and medieval memoirs. In addition to exploring the historical, literary, and cultural significance of the work from its genesis to the present age, students engage in a close reading of the text and an investigation of the primary theoretical issues and approaches associated with the work both in Japan and abroad. Prior knowledge of early Japanese literature or history is recommended. Texts will be read in English translation.

Undergraduates enroll in the 400-level section; 500-level section is for graduate students only. Fulfills premodern elective for EALC major.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall, Spring

JAPAN 5600 Pre-Modern Japanese I

The language referred to as classical Japanese (or literary Japanese, *kobun*, *kogo*, *bungo*, *bungotai*, etc.) was in use from the Heian period to the 20th century, and traces of it remain even in modern Japanese. This course gives students a systematic introduction to the grammar of *bungo*, through readings in texts from the Heian and medieval periods. By the end of the semester students should be able to read reasonably straightforward passages of *bungo* with a dictionary. They will also have a deeper understanding of the grammar and structure of modern Japanese, and will become more skilled at using Japanese-Japanese dictionaries. Readings are drawn from Japanese classical literary texts using materials from standard modern annotated editions.

Undergraduates enroll in the 400-level section; 500-level section is for graduate students only. Prerequisite: L05 412-413, or concurrent registration.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

JAPAN 5610 Pre-Modern Japanese II

This course is a continuation of L05 460 which reinforces and expands the student's understanding of classical Japanese grammar through close reading of texts drawn from the Heian, medieval and Edo periods, and introduces the basics of reading *hentaigana*, the cursive form of *kana* found in manuscript and woodblock print books.

Readings are in classical literary texts using materials from standard modern annotated editions as well as the introduction of skills necessary for reading original texts, including *kambun* and *hentaigana*. Undergraduates enroll in the 400-level section; 500-level section is for graduate students only. Prerequisite: L05 413 or concurrent registration, or L05 460.

Credit 3 units. A&S IQ: LCD, LS EN: H

Typical periods offered: Spring

JAPAN 5620 Seminar in the History and Literature of Japan

Seminar in the history and literature of Japan; subject varies by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5640 Japanese Textual Analysis

This course introduces the advanced student of Japanese to a variety of prose narratives in the modern language. Readings, which include literary texts and topical essays on aspects of Japanese society and culture, reflect the needs and interests of the enrolled students. Focus is on close reading and syntactic analysis of the selected texts. Regular translation exercises gauge the mastery of grammar, syntax, and idiomatic usages. All readings are in Japanese, with class discussion conducted predominantly in English. A final translation project, to be chosen by the student in consultation with the instructor, is required.

Credit 3 units. A&S IQ: LCD EN: H

Typical periods offered: Fall, Spring

JAPAN 5680 Seminar in the Literature of Japan

Seminar in the literature of Japan; subject varies by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5900 Independent Work

Independent study

Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 5910 Guided Readings in Japanese

Guided readings in Japanese

Credit 3 units.

Typical periods offered: Fall, Spring

JAPAN 6000 Thesis Research

Must be a current M.A. student in good standing.

Credit 6 units.

Typical periods offered: Fall, Spring

JAPAN 8000 Dissertation Research

Must be a current Ph.D. student in good standing.

Credit 6 units.

Typical periods offered: Fall, Spring

Korean

KOREA 5017 Third-Level Modern Korean I

This course is designed for students who have completed Second Level Modern Korean I & II or those with equivalent proficiency. The course aims to further develop students' communicative competence and proficiency in speaking, listening, writing, and reading while deepening their understanding of Korean culture at the high intermediate level. Throughout the course, students will develop the cultural and linguistic understanding necessary to communicate for various personal and social purposes. By the end of the course, students will be able to participate in detailed conversations on various familiar topics such as travel, leisure activities, health, traditions, holidays, and beliefs using complex sentences. Students can expect to read simple articles and write essays of 250-350 words. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Fall

KOREA 5018 Third-Level Modern Korean II

This course is intended for students who have completed Third-Level Korean I or have an equivalent level of proficiency. The primary goal of the course is to enhance students' communicative competence and proficiency in speaking, listening, writing, and reading while also deepening their understanding of Korean culture at the high intermediate level. By the end of the course, students will be able to participate in detailed conversations on various familiar and unfamiliar topics and social situations in a culturally appropriate manner. They will also be able to comprehend main ideas and supporting details in non-complex aural and written stories across various contexts and read articles, narrative, and descriptive texts. Students will also be able to describe, explain, and compare using structures and vocabulary items at the high intermediate level in writing and speaking. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

KOREA 5027 Fourth-Level Modern Korean I

This course is intended for students who have completed the Third Level Modern Korean I & II or possess equivalent proficiency. The course's main objective is to develop student's language skills in speaking, listening, reading, and writing, with a greater emphasis on reading and writing while enhancing their understanding of Korean culture. The class explores various topics related to Korea and Korean culture, utilizing a primary textbook and a range of authentic materials such as newspaper articles, literature, films, and video clips that are relevant to the topics. Through these materials, students will be able to express their ideas convincingly and precisely in Korean on Korea-related topics. Additionally, students will work on improving their Korean proficiency in vocabulary and hanja (Chinese characters) at an advanced level and perfecting their sentence structure for oral and written communication in various formats. By the end of the course, students will have developed advanced-level language skills, a deeper understanding of Korean culture, and the ability to communicate their ideas in Korean effectively. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: LCD, LS BU: IS EN: H

Typical periods offered: Fall

KOREA 5028 Fourth-Level Modern Korean II

This course aims to help students enhance their Korean language proficiency and knowledge of Korean culture, history, and society to an advanced level. Throughout the course, students will participate in various activities, such as discussions, presentations, and reading and writing exercises based on materials such as movies and readings that provide rich cultural, historical, and sociopolitical information about Korea. Additionally, using authentic materials throughout the course provides students with opportunities to be exposed to the authentic Korean language in various situations. Students will continue to expand their advanced-level vocabulary and hanja (Chinese character) knowledge and refine their sentence structure skills for effective oral and written communication in various formats. Students are required to take the placement exam unless they are advancing from the previous level.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

KOREA 5037 Contemporary Korean I

This is an advanced to high-advanced level Korean course in standard modern Korean. Emphasis is placed on developing an advanced level of reading proficiency in Korean and writing ability in Korean for an academic or professional purpose.

Credit 3 units. A&S IQ: LCD, LS BU: IS EN: H

Typical periods offered: Fall

KOREA 5038 Contemporary Korean II

This is the continuation of Contemporary Korean I. It is an advanced to high-advanced level Korean course in standard modern Korean. Emphasis is placed on developing an advanced level of reading proficiency in Korean and writing ability in Korean for an academic or professional purpose.

Credit 3 units. A&S IQ: HUM, LCD, LS BU: HUM EN: H

Typical periods offered: Spring

KOREA 5550 Topics in Korean Literature and Culture

Topics course in Korean literature and culture; subject varies by semester.

Credit 3 units. A&S IQ: LCD EN: H

Typical periods offered: Fall, Spring

KOREA 5900 Independent Study

Independent study

Credit 3 units.

Typical periods offered: Fall, Spring

KOREA 5920 Guided Readings in Korean

Guided readings in Korean

Credit 3 units. EN: H

Typical periods offered: Fall, Spring, Summer



East Asian and Comparative Literatures, PhD

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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade required for a course to count toward the PhD is a B–.

Required Courses

Course Requirements

All PhD candidates must complete a minimum of 30 graduate-level credits selected to yield a broad and deep familiarity with the literary and cultural history of the country of focus and a secondary area (or areas) of focus. Language courses will not count toward the 30 required credits.

For this dual degree, the 30 credits must include the following:

- Two courses comprising the Comparative Literature core requirement, including COMPLITTH 5200 Introduction to Comparative Literature and three additional courses distributed among designated categories (refer to the PhD in Comparative Literature (p. 167) for the listing of designated categories).
- Beyond these requirements, students may pursue an Arts & Sciences graduate certificate in Film and Media Studies; Women, Gender, and Sexuality Studies; Data Science in the Humanities; Early Modern Studies; or Translation Studies to supplement their training. If admitted to the graduate certificate program, up to 50% of the credits required for that certificate may count toward the elective requirements for the PhD, subject to approval from the Director of Graduate Studies and the Certificate Director.
- The remaining courses are elective courses that the student may choose in consultation with their advisor.

Language Requirements

All PhD students must demonstrate native or near-native competence in both the language of focus (Chinese, Japanese or Korean) and English. Coursework in premodern forms of the language of focus may also be required.

Upon joining the dual degree program, students must be competent in a minimum of two languages pertinent to their work and their objectives. Both languages will be evaluated by an expert in each language.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Qualifying Evaluation

The Graduate Committee will conduct a screening of PhD students no later than the end of their third semester. By November 15 of their third semester, students will submit a research statement (approx. 500 words) and a writing sample (complete seminar paper). During reading week, they will be expected to give a 10-minute formal presentation to the department faculty. The Graduate Committee will then assess each student's academic performance and either recommend or not recommend advancement. Students not advancing will be recommended for conferral of the MA degree in lieu of a PhD. The second element of this qualifying evaluation assesses the student's progress in their primary language of focus (Chinese, Japanese, or Korean). This evaluation will be waived in the case of native speakers.

Comprehensive Examinations

Comparative Literature Dual PhD degree students will take the comprehensive examinations required in the EALC department.

The PhD comprehensive examinations are intended to test a student's general knowledge as well as mastery of their area or areas of focus. Near the end of formal courses, students begin preparing to complete two examinations, which include the following:

- Their major field, generally defined as modern or premodern literature/culture of China, Japan, or Korea
- One minor field, defined in consultation with and approved by the student's advisory committee. The minor field may be directly related to the student's dissertation research, but it can demonstrate greater breadth in terms of period, discipline, or cultural-linguistic area. The minor field may also be comparative or theoretical.
- Students who have completed a certificate in Film and Media Studies; Women, Gender, and Sexuality Studies; Data Science in the Humanities; Early Modern Studies; or Translation Studies may, with advisory committee permission, waive the minor exam. Up to 6 certificate credits may count toward the degree coursework.

Students should expect to have completed both exams by the end of the fifth semester.

Dissertation Prospectus

Following the successful completion of the two comprehensive examinations and before starting their sixth semester in the program, students will present their dissertation prospectus in a public forum before a panel of relevant faculty.

The Title, Scope, and Procedure form must also be submitted before starting the sixth semester.

Dissertation

Students will complete a doctoral dissertation based on extensive research on a literary or cultural topic that produces new knowledge of publishable quality in the field of East Asian Studies. Dissertation research and writing is usually completed during the last five semesters of graduate study. For the dual degree, the dissertation must be of a comparative nature, and the dissertation committee must include at least one faculty member representing Comparative Literature. The dissertation itself should, in its theoretical grounding, approach, transnational or transcultural scope, and/or interdisciplinarity, speak to the field of Comparative Literature as currently constituted.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy for EALC requirements include the completion of required coursework; the completion of the comprehensive exams; the submission of the Title, Scope, and Procedure form; and the completion of the oral defense of the dissertation prospectus. Students must advance to doctoral candidacy prior to the sixth semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from

attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Students who are not advancing after the Qualifying Evaluation in their third semester will be recommended for the conferral of the MA degree in lieu of a PhD. The EALC MA degree in lieu of a PhD follows the requirements of the EALC MA, which include a minimum of 10 courses (30 units of coursework) and a master's essay or master's thesis. EALC does not offer an MA along the way.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Given the intense competition in the current academic job market for which nearly all PhD students in East Asian Languages and Cultures prepare, it is essential that our students acquire extensive teaching experience in their research areas, as well as training in pedagogy, under the supervision of our faculty. PhD students in EALC are expected to assist in teaching a wide array of courses in language, literature and culture, film and media studies, gender and sexuality studies, and/or digital humanities. Our PhD students are carefully mentored in the preparation and practice of excellent teaching, including course development, syllabus design, lecturing, leading discussions, student guidance, and the evaluation of students' work. To complement and enhance their experiences in the classroom, all EALC PhD students are strongly encouraged to take advantage of programs and workshops offered by the Center for Teaching and Learning (CTL), both prior to and throughout their time teaching.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

EALC PhD students are required to participate in two types of Preparatory Engagement:

1. Graduate Student Mentored Teaching Orientation
2. One Preparatory Engagement activity offered by the CTL during their first year, such as the following:
 - 90-minute Graduate Student and Postdoc Workshop
 - EPIC Learning Community
 - Tech Trainings

To complement and enhance their experiences in the classroom, all EALC PhD students are strongly encouraged to take advantage of programs and workshops offered by the CTL.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete

a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students must complete six to eight AI engagements totaling 60 to 70 MER units based on the following guidelines. 5-unit and 15-unit engagements are allowed up to (and no more than) two times.

- *5- and 10-unit engagement* roughly corresponds to per-week hours with tasks such as attending class sessions; assisting with Canvas management; assisting with in-class activities; holding weekly office hours; assisting with grading; leading weekly discussion sessions; attending instructional plan meetings with the instructor; conducting one-on-one sessions; and weekly language drills or sub-session teaching.
- *15-unit engagement* will be considered for advanced AIs only for content-based courses. In addition to selecting tasks for 5- and 10-unit engagements, 15-unit engagement may include co-designing and teaching up to four class sessions.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students must complete six to eight AI engagements totaling 60 to 70 MER units based on one of the following pathways. 5-unit and 15-unit engagements are allowed up to (and no more than) two times.

- Preparatory Engagement

Pathway #1

ASGS 8010	Take seven times

Pathway #2

ASGS 8010	Take six times

Pathway #3

ASGS 8005	Take one time
ASGS 8010	Take six times

Pathway #4

ASGS 8005	Take two times
ASGS 8010	Take six times

Pathway #5

ASGS 8005	Take two times
ASGS 8010	Take five times

Pathway #6

ASGS 8010	Take five times
ASGS 8015	Take one time

Pathway #7

ASGS 8005	Take one time
ASGS 8010	Take five times
ASGS 8015	Take one time

Pathway #8

ASGS 8005	Take one time
ASGS 8010	Take four times
ASGS 8015	Take one time

Pathway #9

ASGS 8005	Take two times
ASGS 8010	Take four times
ASGS 8015	Take one time

Pathway #10

ASGS 8005	Take one time
ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #11

ASGS 8005	Take two times
ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #12

ASGS 8005	Take two times
ASGS 8010	Take two times
ASGS 8015	Take two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students have the opportunity to complete a TIP experience by teaching as the main instructor of a course for 20 MER units.

- **Language teaching (Chinese/Japanese/Korean):** The student must submit the lesson plan to the faculty-mentor for approval and adjustment. The faculty-mentor observes the class multiple times throughout the semester and offers suggestions for improvement. In addition, the student assists in the language program's extracurricular events and social media posts as needed.
- **Content courses (undergraduate levels):** The student must work with the faculty-mentor to design the syllabus and then submit the syllabus and course description for the department Undergraduate Committee's review and approval. The faculty-mentor visits the course and offers suggestions for improvement throughout the semester.

Optional Pathway

ASGS 8020	Take one time

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

Optional Pathway

ASGS 8120	Take one time

East Asian Languages and Cultures, Accelerated BA/MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

This program allows qualified Washington University undergraduates to complete a Master of Arts (MA) degree in a one-year accelerated program after earning the Bachelor of Arts (BA) degree. The undergraduate and graduate degrees are awarded sequentially, with admission to the Accelerated MA program, if approved, occurring during the fall semester after completion of the BA degree during the preceding December, May, or August. Applications may be submitted at any time during the student's senior year through March 15, and GRE tests are not required. The program is available only to senior students and only for continuous enrollment the next year. There is no option for deferred admission.

The requirements for the Accelerated MA are identical to those for the traditional MA, as detailed below. To complete the MA in one year, students may apply three undergraduate courses at the 4000-level or above (a maximum of 9 units) toward the master's degree. Undergraduate courses must be acceptable to the director of graduate studies, and they must be completed with a final grade of B- or higher.

- **Total Units Required:** 30, including 9 units 4000-level coursework taken in the senior year
- **Degree Length:** One year
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade required for a course to count toward the MA is a B-.

Required Courses

1. A minimum of 10 graduate-level courses (30 units; including three 4000-level courses taken during senior year), chosen in consultation with the advisor:
 - At least one course in theory or methodology, chosen in consultation with the advisor. Examples include the following: GLOBAL 5897 Global Asias, COMPLITHT 5200 Introduction to Comparative Literature, FILM 5420 Film Theory, and WGSS 5150 Feminist Literary and Cultural Theory.
 - Language study. Students must achieve third-level competence in one East Asian language (Chinese, Japanese, or Korean) by the end of the program. Students who place out of third-level coursework via the placement exam or who attain that level after the first year in the program are expected to continue with fourth-level, fifth-level, and/or classical language. Students who place beyond these levels or who are native speakers are encouraged to take up study of a second East Asian language. No more than four semester-long courses in language may count toward the 10 required courses. Note that courses numbered below the 5000-level (i.e., first- and second-level courses) must be taken as an overload and do not count toward the degree.
 - At least two courses outside of the country of focus or that involve the comparative treatment of more than one East Asian culture.
 - At least two courses focused on the modern era and at least two courses focused on the premodern era.
2. One of the following:
 - Students who plan to continue their academic training at the PhD level should complete a master's essay or a master's thesis:
 - **Master's essay.** The essay will be based on a research paper written for one of the student's MA courses. Students will be expected to revise the paper in consultation with their advisor, lengthening the paper to provide appropriate context and explanation but also tightening, where necessary, to offer an incisive, analytical exploration of the topic. Essays should range from 8,000 to 10,000 words (34 to 40 pages). Students who elect this option may choose to register for 3 units of EALC 5930 Guided Readings in East Asian Languages and Cultures and will graduate "Master's without thesis." Each student will assemble a committee of three faculty members who will read the essay; the student will meet with the committee for a short oral defense of the essay.
 - **Master's thesis.** The master's thesis option allows students to complete a longer master's thesis under the direction of a thesis advisor. The thesis must be based on original research in an area of interest. It generally runs at least 50 pages in length, and it must utilize sources in the relevant East Asian language. Upon completion of the thesis, students sit for



a defense with three to four faculty members, chosen in consultation with the thesis advisor. Students who elect this option may choose to register for 3 units of EALC 6000 Thesis Research and will graduate "Master's with thesis."

- Students who do not plan to continue their academic training at the PhD level may complete a comprehensive written examination focusing on two major areas to be determined by an advisory committee comprised of at least three faculty members. The examination is administered near the end of the candidate's term of study and followed by a short oral examination in which the student discusses the written examination with the advisory committee.

Thesis Requirements/Details

The master's thesis is optional. More information can be found earlier on this page.

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

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East Asian Languages and Cultures, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** Two years
 - **Note:** Students must be enrolled in at least 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade required for a course to count toward the MA is a B–.

Required Courses

1. A minimum of 10 graduate-level courses (30 units), chosen in consultation with the advisor.
 - At least one course in theory or methodology, chosen in consultation with the advisor. Examples include the following: GLOBAL 5897 Global Asias, COMPLITHT 5200 Introduction to Comparative Literature, FILM 5420 Film Theory, and WGSS 5150 Feminist Literary and Cultural Theory.
 - *Language study.* Students must achieve third-level competence in one East Asian language (Chinese, Japanese, or Korean) by the end of the program. Students who place out of third-level coursework via the placement exam or who attain that level after the first year in the program are expected to continue with fourth-level, fifth-level, and/or classical language. Students who place beyond these levels or who are native speakers are encouraged to take up study of a second East Asian language. No more than four semester-long courses in language may count toward the 10 required courses. Note that courses numbered below the 5000-level (i.e., first- and second-level courses) must be taken as an overload and do not count toward the degree.
 - At least two courses outside of the country of focus or that involve the comparative treatment of more than one East Asian culture.
 - At least two courses focused on the modern era and at least two courses focused on the premodern era.
2. One of the following:
 - Students who plan to continue their academic training at the PhD level should complete a master's essay or a master's thesis:
 - *Master's essay.* The essay will be based on a research paper written for one of the student's MA courses. Students will be expected to revise the paper in consultation with their advisor,

lengthening the paper to provide appropriate context and explanation but also tightening, where necessary, to offer an incisive, analytical exploration of the topic. Essays should range from 8,000 to 10,000 words (34 to 40 pages). Students who elect this option may choose to register for 3 units of EALC 5930 Guided Readings in East Asian Languages and Cultures and will graduate "Master's without thesis." Each student will assemble a committee of three faculty members who will read the essay; the student will meet with the committee for a short oral defense of the essay.

- *Master's thesis.* The master's thesis option allows students to complete a longer master's thesis under the direction of a thesis advisor. The thesis must be based on original research in an area of interest. It generally runs at least 50 pages in length, and it must utilize sources in the relevant East Asian language. Upon completion of the thesis, students sit for a defense with three to four faculty members, chosen in consultation with the thesis advisor. Students who elect this option may choose to register for 3 units of EALC 6000 Thesis Research and will graduate "Master's with thesis."
- Students who do not plan to continue their academic training at the PhD level may complete a comprehensive written examination focusing on two major areas to be determined by an advisory committee comprised of at least three faculty members. The examination is administered near the end of the candidate's term of study and followed by a short oral examination in which the student discusses the written examination with the advisory committee.

Thesis Requirements/ Details

The master's thesis is optional. More information can be found earlier on this page.

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

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East Asian Languages and Cultures, PhD

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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in at least 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade required for a course to count toward the PhD is a B–.

Required Courses

Course Requirements

All PhD candidates must complete a minimum of 30 graduate-level credits selected to yield a broad and deep familiarity with the literary and cultural history of the country of focus and a secondary area (or areas) of focus. Language courses will not count toward the 30 required credits.

For the EALC degree, the 30 credits must include the following:

- At least one course in literary and cultural theory, methodology, and pedagogy to be determined in consultation with the advisor.
- Two courses in the literary and cultural traditions of a second East Asian culture, including courses offered through other departments and programs.
- For students focused on modern literature and culture, one course focused on premodern East Asia. Students focused on premodern literature and culture must take at least one course focused on modern East Asia.
- Beyond these requirements, students may pursue an Arts & Sciences graduate certificate in Film and Media Studies; Women, Gender, and Sexuality Studies; Data Science in the Humanities; Early Modern Studies; or Translation Studies to supplement their training. If admitted to the graduate certificate program, up to 50% of the credits required for that certificate may count toward the elective requirements for the PhD, subject to approval from the Director of Graduate Studies and the Certificate Director.
- The remaining courses are elective courses that the student may choose in consultation with their advisor.

Language Requirements

All PhD students must demonstrate native or near-native competence in both the language of focus (Chinese, Japanese, or Korean) and English. Coursework in premodern forms of the language of focus may also be required.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Qualifying Evaluation

The Graduate Committee will conduct a screening of PhD students no later than the end of their third semester. By November 15 of their third semester, students will submit a research statement (approx. 500 words) and a writing sample (complete seminar paper). During reading week, they will be expected to give a 10-minute formal presentation to the department faculty. The Graduate Committee will then assess each student's academic performance and either recommend or not recommend advancement. Students not advancing will be recommended for conferral of the MA degree in lieu of a PhD. The second element of this qualifying evaluation assesses the student's progress in their primary language of focus (Chinese, Japanese, or Korean). This evaluation will be waived in the case of native speakers.

Comprehensive Examinations

The PhD comprehensive examinations are intended to test a student's general knowledge as well as their mastery of their area or areas of specialization. Near the end of formal courses, students begin preparing to complete two examinations, which include the following:

- Their major field, generally defined as the modern or premodern literature/culture of China, Japan, or Korea
- One minor field, defined in consultation with and approved by the student's advisory committee. The minor field may be directly related to the student's dissertation research, but it can demonstrate greater breadth in terms of period, discipline, or cultural-linguistic area. The minor field may also be comparative or theoretical.
- Students who have completed a certificate in Film and Media Studies; Women, Gender, and Sexuality Studies; Data Science in the Humanities; Early Modern Studies; or Translation Studies, with advisory committee permission, waive the minor exam. Up to 6 certificate credits may count toward the degree coursework.

Students should expect to have completed both exams by the end of the fifth semester.

Dissertation Prospectus

Following the successful completion of the two comprehensive examinations and prior to starting their sixth semester in the program, students will present their dissertation prospectus in a public forum before a panel of relevant faculty.

The Title, Scope, and Procedure form must also be submitted before starting the sixth semester.

Dissertation

Students will complete a doctoral dissertation based on extensive research on a literary or cultural topic that produces new knowledge of publishable quality in the field of East Asian Studies. Dissertation research and writing is usually completed during the last five semesters of graduate study.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams;

completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy for EALC requirements include the completion of required coursework; the completion of the comprehensive exams; the submission of the Title, Scope, and Procedure form; and the completion of the oral defense of the dissertation prospectus. Students must advance to doctoral candidacy prior to the sixth semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Students who are not advancing after the Qualifying Evaluation during their third semester will be recommended for conferral of the MA degree in lieu of a PhD. The EALC MA degree in lieu of a PhD follows the requirements of the EALC MA, which include a minimum of 10 courses (30 credit units of coursework) and a master's essay or master's thesis. EALC does not offer an MA along the way.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Given the intense competition in the current academic job market for which nearly all PhD students in East Asian Languages and Cultures prepare, it is essential that our students acquire extensive teaching experience in their research areas, as well as training in pedagogy, under the supervision of our faculty. PhD students in EALC are expected to assist in teaching a wide array of courses in language, literature and culture, film and media studies, gender and sexuality studies, and/or digital humanities. Our PhD students are carefully mentored in the preparation and practice of excellent teaching, including course development, syllabus design, lecturing, leading discussions, student guidance, and the evaluation of students' work. To complement and enhance their experiences in the classroom, all EALC PhD students are strongly encouraged to take advantage of programs and workshops offered by the Center for Teaching and Learning (CTL), both prior to and throughout their time teaching.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

EALC PhD students are required to participate in two types of Preparatory Engagement:

1. Graduate Student Mentored Teaching Orientation
2. One Preparatory Engagement activity offered by the CTL during their first year, such as the following:
 - 90-minute Graduate Student and Postdoc Workshop
 - EPIC Learning Community
 - Tech Trainings

To complement and enhance their experiences in the classroom, all EALC PhD students are strongly encouraged to take advantage of programs and workshops offered by the CTL.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete

a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students must complete six to eight AI engagements totaling 60 to 70 MER units based on the following guidelines. 5-unit and 15-unit engagements are allowed up to (and no more than) two times.

- *5- and 10-unit engagement* roughly corresponds to per-week hours with tasks such as attending class sessions; assisting with Canvas management; assisting with in-class activities; holding weekly office hours; assisting with grading; leading weekly discussion sessions; attending instructional plan meetings with the instructor; conducting one-on-one sessions; and weekly language drills or sub-session teaching.
- *15-unit engagement* will be considered for advanced AIs only for content-based courses. In addition to selecting tasks for 5- and 10-unit engagements, 15-unit engagement may include co-designing and teaching up to four class sessions.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students must complete six to eight AI engagements totaling 60 to 70 MER units based on one of the following pathways. 5-unit and 15-unit engagements are allowed up to (and no more than) two times.

- Preparatory Engagement

Pathway #1

ASGS 8010	Take seven times

Pathway #2

ASGS 8010	Take six times

Pathway #3

ASGS 8005	Take one time
ASGS 8010	Take six times

Pathway #4

ASGS 8005	Take two times
ASGS 8010	Take six times

Pathway #5

ASGS 8005	Take two times
ASGS 8010	Take five times

Pathway #6

ASGS 8010	Take five times
ASGS 8015	Take one time

Pathway #7

ASGS 8005	Take one time
ASGS 8010	Take five times
ASGS 8015	Take one time

Pathway #8

ASGS 8005	Take one time
ASGS 8010	Take four times
ASGS 8015	Take one time

Pathway #9

ASGS 8005	Take two times
ASGS 8010	Take four times
ASGS 8015	Take one time

Pathway #10

ASGS 8005	Take one time
ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #11

ASGS 8005	Take two times
ASGS 8010	Take three times
ASGS 8015	Take two times

Pathway #12

ASGS 8005	Take two times
ASGS 8010	Take two times
ASGS 8015	Take two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students have the opportunity to complete a TIP experience by teaching as the main instructor of a course for 20 MER units.

- Language teaching (Chinese/Japanese/Korean): The student must submit the lesson plan to the faculty-mentor for approval and adjustment. The faculty-mentor observes the class multiple times throughout the semester and offers suggestions for improvement. In addition, the student assists in the language program's extracurricular events and social media posts as needed.
- Content courses (undergraduate levels): The student must work with the faculty-mentor to design the syllabus and then submit the syllabus and course description for the department Undergraduate Committee's review and approval. The faculty-mentor visits the course and offers suggestions for improvement throughout the semester.

Optional Pathway

ASGS 8020	Take one time

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

Optional Pathway

ASGS 8120	Take one time

Economics

The Department of Economics at Washington University has a strong reputation for preparing high-quality PhD students for academic positions as well as for private- and public-sector jobs. We accept qualified students from any field who possess strong analytical abilities in mathematics and statistics to complete a challenging **Doctor of Philosophy (PhD) degree in Economics**.

The Department of Economics also offers two Master of Arts (MA) programs. The **Accelerated BA/MA in Economics** is available only to qualified Washington University undergraduates. The **MA in Economics** is available to all qualified students from any field. These programs provide students with the analytical background to prepare them for a diverse set of careers, from positions in government, business, and nonprofit organizations to further graduate studies.

Phone: 314-935-5670
 Email: economics@wustl.edu
 Website: <http://economics.wustl.edu/graduate>

Faculty

Chair

George-Levi Gayle
 John H. Biggs Distinguished Professorship in Economics
 PhD, University of Pittsburgh
 Econometric theory; contract theory; labor economics; personnel economics; corporate governance

Associate Chair

Francisco (Paco) Buera
 Sam B. Cook Professor of Economics
 PhD, University of Chicago
 Macroeconomics; macroeconomic development

Director of Graduate Studies — Doctoral Program

Jonathan Weinstein
 Professor
 Director Graduate Studies - Doctoral Program
 PhD, Massachusetts Institute of Technology
 Microeconomic theory, game theory

Director of Graduate Studies — Master's Program

Brian Rogers

Professor

PhD, California Institute of Technology

Microeconomic theory; fields of network formation; social learning; applied game theory

Associate Director of Graduate Studies — Master's Program

Grace J. Yan Johnson

Senior Lecturer

PhD, Oklahoma State University

Director of Undergraduate Studies

Ana Babus

Associate Professor

PhD, Erasmus University Rotterdam

Microeconomic theory; finance

Department Faculty

Md Nazmul Ahsan

Senior Lecturer

PhD, University of Southern California

Gaetano Antinolfi

Professor

Weidenbaum Center Research Fellow

PhD, Cornell University

Macroeconomics; monetary and international economics

Marcus Berliant

Professor

PhD, University of California, Berkeley

Public finance; mathematical economics; urban economics

Maria Canon

Senior Lecturer

PhD, University of Rochester

Martín García-Vázquez

Assistant Professor

PhD, University of Minnesota

Labor economics; public finance; macroeconomics; econometrics

Limor Golan

Laurence H. Meyer Professor of Economics

PhD, University of Wisconsin–Madison

Labor economics; applied microeconomics; applied econometrics

Philipp Grübener

Assistant Professor

PhD, European University Institute

Quantitative macroeconomics; macro labor economics; macro public finance

Andrew Jordan

Assistant Professor

PhD, University of Chicago

Labor markets; discrimination; criminal justice

Sukko Kim

Associate Professor

PhD, University of California, Los Angeles

Economic history; urban and regional economics; trade and development

SangMok Lee

Associate Professor

PhD, California Institute of Technology

Microeconomics

Rodolfo Manuelli

James S. McDonnell Distinguished University Professor

Graduate Admissions Officer

PhD, University of Minnesota

Economic growth and development economics; macro and monetary economics

Emilie McHugh Rivers

Senior Lecturer

MS, University of Wisconsin–Madison

Macroeconomics; microeconomics; urban economics

Julie Holland Mortimer

Assistant Professor of Economics

James Langenfeld Professor of Industrial Organization

PhD, University of California, Los Angeles

Empirical industrial organization

Ismael Mourifié

Professor

PhD, University of Montréal

Microeconomics (theory and applications)

Werner Ploberger

Thomas H. Eliot Distinguished Professor in Arts & Sciences

PhD, Vienna University of Technology

Statistics; econometric methodology; time-series econometrics

Robert Pollak

Hernreich Distinguished Professor of Economics

PhD, Massachusetts Institute of Technology

Environmental economics; microeconomics/industrial organization; business and government; political economy

David Rivers

Associate Professor
PhD, University of Wisconsin-Madison
Industrial organization, productivity, economics of crime, applied econometrics, applied microeconomics

Xiaofeng Shao

Professor of Statistics & Data Science
Professor of Economics
PhD, University of Chicago
Econometrics time series, analysis change-point analysis, high-dimensional statistics, nonparametric statistics, functional data analysis

Yongseok Shin

Douglass C. North Distinguished Professor of Economics
PhD, Stanford University
Macroeconomics; economic growth
On leave AY 2026-2027

Guanyi Wang

Assistant Professor
PhD, University College London
Econometrics

M. Bumin Yenmez

Professor
PhD, Stanford Graduate School of Business
Microeconomic theory, mechanism and market design, choice theory

Affiliated Faculty

Mariagiovanna Baccara

PhD, Princeton University

Scott A. Baker

JD, University of Chicago
PhD, University of North Carolina at Chapel Hill

Serdar Birinci

PhD, University of Minnesota

James Bullard

PhD, Indiana University

Maximiliano Dvorkin

PhD, Yale University

Philip H. Dybvig

PhD, Yale University

Miguel Faria-e-Castro

PhD, New York University

Leonard Green

PhD, State University of New York

Barton Hamilton

PhD, Stanford University

Julian Kozlowski

PhD, New York University

Oksana Leukhina

PhD, University of Minnesota

Glenn MacDonald

PhD, University of Rochester

Fernando Martin

PhD, University of Pennsylvania

Serdar Ozkan

PhD, University of Pennsylvania

Camillo Padoa-Schioppa

PhD, Massachusetts Institute of Technology

Paulia Restrepo-Echavarria

PhD, University of California, Los Angeles

Juan Sanchez

PhD, University of Rochester

Guillaume Vandenbroucke

PhD, University of Rochester

Michael Zdinak

PhD, Washington University in St. Louis

Professors Emeriti

Costas Azariadis

Edward Mallinckrodt Distinguished Professor in Arts & Sciences Emeritus
PhD, Carnegie Mellon University

Sudeshna Bandyopadhyay

PhD, University of Maryland

Lee K. Benham

PhD, Stanford University

Michele Boldrin

Joseph Gibson Hoyt Distinguished Professor in Arts & Sciences Emeritus
PhD, University of Rochester

Steven Fazzari

Bert A. and Jeanette L. Lynch Distinguished Professor of Economics Emeritus
PhD, Stanford University

David Levine

John H. Biggs Distinguished Professor Emeritus
PhD, Massachusetts Institute of Technology

John Nachbar

PhD, Harvard University

Wilhelm Neufeind

PhD, Universität Bonn

Bruce C. Petersen

Bert and Jeanette Lynch Distinguished Professor Emeritus
PhD, Harvard University

Ping Wang

Seigle Family Professor in Arts & Sciences
PhD, University of Rochester

Degree Requirements

- Economics, Accelerated BA/MA (p. 230)
- Economics, MA (p. 232)
- Economics, PhD (p. 233)

Courses

ECON 5001 Intermediate Microeconomic Theory

Analytic theory of consumer and producer behavior under perfect and imperfect competition. Coverage of demand theory (indifference curves and utility functions) and preferences under uncertainty, including expected utility and risk aversion. Development of general equilibrium under pure exchange, including the concepts of competitive equilibrium and Pareto efficiency. Discussion of the role of time as it pertains to interest rates, discounting and net present value. Analysis of standard monopoly and simple oligopoly problems. Development of non-cooperative game theory, including strategic and extensive-form equilibria and Nash and sub-game perfect equilibria. Thorough training in intermediate theory would require both Econ 4011 and Econ 4021.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall, Spring

ECON 5002 Intermediate Macroeconomic Theory

National income and labor market measurement. Business cycle facts and consideration of alternative explanations for business cycle phenomena. Development of Solow growth model, along with theories of endogenous growth and an examination of reasons for differences in growth rates across countries. General equilibrium description of firms and consumers in labor and product markets. Implementation of monetary and fiscal policy, and exploration of the impact of policy changes on the macroeconomy. Prerequisites: Econ 1021 and Econ 4011.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 5151 Applied Econometrics

Introduction to econometrics as it is applied in microeconomics. Emphasis is on hands-on implementation of the models covered in the course. Topics related to the analysis of microeconomic data include cross-section and panel data linear models and robust inference; instrumental variables estimation; simultaneous equation models; models for discrete choice; and truncation, censoring and sample selection models.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 5160 Topics in Econometrics: Microeconometrics

This is a topics class in econometrics but with a strong focus on microeconometrics. This course has two main objectives: (i) Teach students various advanced theoretical econometric tools to the students and (ii) guide them through the process of writing a research paper that explores an empirical research question in economics using adequate econometrics tools. We will study theory and application of methods of data analysis developed for microdata pertaining to individuals, households and firms. More, precisely, We

will study recent development of theory and methods for analyzing selective samples and analyzing discrete choice models. Prerequisites: Econ 4011 and (Econ 413, Econ 413W, or Econ 536). Math 309 recommended. Students should co-enroll in the A subsection. 3 units. Credit 3 units. EN: S

Typical periods offered: Fall

ECON 5830 Mathematical Economics

The objective of this course is to develop the mathematical tools necessary for the study of intermediate micro- and macro-economic theory and the advanced electives in economics. The principal focus will be the calculus of multivariate functions (including total and partial differentiation), unconstrained and constrained optimization of multivariate functions, and implicit and inverse function rules. Time permitting, additional topics will be introduced. Economics majors and minors must take this course (or Calculus III) prior to, or concurrently with, Intermediate Microeconomics. Students who have taken, or are taking, Calculus III may take this course as well.

Credit 1 unit. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 6001 Microeconomics (MA)

This course is designed to provide the foundational tools and theory of microeconomic analysis, presented at a graduate level. In the first half of the course, we will begin with consumer theory including utility theory, consumer demand, properties of demand systems, income and substitution effects, etc. We will then cover producer theory including profit maximization, cost functions, supply curves, and derived factor demand. We will then combine consumer and producer theory in the context of competitive markets and monopoly. In the second half of the course, we will consider situations where strategic interactions are of central importance. Game theory is the primary tool that economists use for understanding strategic interactions. After covering the essentials of game theory, we will consider several applications of game theory in different economic settings. After covering a few more advanced topics in pricing, we will discuss decision-making under uncertainty. Finally, we will introduce general equilibrium theory. Prerequisite: Admission to the A.M. program in Economics or instructor permission.

Credit 3 units.

Typical periods offered: Fall

ECON 6002 Macroeconomics (MA)

The objective of this course is to introduce you to the study of macroeconomics at the advanced level. This means that we will use rigorous models and employ (dynamic) optimization techniques to present and analyze macroeconomic theories. A common theme across the models we will study is that economic aggregates are the equilibrium result of the optimizing decisions made by rational agents at the individual level. We will employ this rigorous approach, not as an end in itself, but as a means to obtain disciplined insights into the important questions that trouble macroeconomists. The topics we will cover include economic growth, business cycle fluctuations, employment and unemployment, and fiscal and monetary policy. Prerequisite: Admission to the A.M. program in Economics or instructor permission.

Credit 3 units.

Typical periods offered: Fall

ECON 6110 Econometrics

This course is an introductory econometrics course for the first-year master's students in economics. It is designed to teach students basic econometric methods while also developing a theoretical understanding of those methods. Econometrics bridges the gap between economic theories and the real data. With econometrics,

we can test hypotheses about theories and policies, as well as forecast future economic activities. Our course begins with a review of basic statistics and probability, and then covers fundamentals of linear regressions. Further topics include regressions with panel data, a binary dependent variable, and instrumental variables. Students will use statistical software, such as STATA, for hands-on econometric exercises and research projects that are designed to provide experience working with the techniques covered in class. By the end of the course, the students should possess the skills and knowledge needed to understand applied economic research and to conduct their own empirical research. Prerequisites: admission to the master's program in Economics, or instructor permission.

Credit 3 units.

Typical periods offered: Fall

ECON 6120 Computational and Empirical Methods in Economics

This course is divided into two parts. The first part focuses on learning about empirical methods and gaining familiarity with widely-used microeconomic data sources. Importantly, students will learn how to apply these methods and tools on microdata to establish empirical patterns and causal relationships. The second part focuses on learning about computational methods to solve macroeconomic models. The objective here is to gain theoretical insights that are testable against microeconomic data and useful to inform policy makers.

Credit 3 units.

Typical periods offered: Spring

ECON 6130 Agent-Based Modeling in Economics

Known alternatively as multi-agent or agent-based computational economics, agent-based models (ABMs) developed from artificial intelligence research and have gained renewed interest in economics. Emphasis is on how agent-based models differ from traditional approaches in economics when modeling complex systems of behavior defined by deep heterogeneity, adaptive dynamics, and repeated interaction of large numbers of agents. Using agent-based software (NetLogo) in hands-on exercises and a research proposal will provide additional experience with the modeling techniques covered in class. In considering topics familiar to advanced economics students, we'll demonstrate how ABMs complement the mathematical approach to modeling emphasized elsewhere in the curriculum.

Credit 3 units.

Typical periods offered: Fall

ECON 6140 Machine Learning and Data Science in Economics

This course provides the foundations for a career in machine learning and data science for social scientists. The fundamental concepts of artificial intelligence and machine learning are taught in class, followed by practical applications in lab sessions, coding assignments, and a capstone project at the end of the semester. This course is heavily dependent of coding skills in Python. We will start with exploratory data analysis, discuss what machine learning is, learn the most common techniques in the field, do predictive modeling, work on a capstone project, presenting it and deploying it in the cloud.

Credit 3 units.

Typical periods offered: Spring

ECON 6160 Topics in Econometrics: Microeconometrics

This is a topics class in econometrics but with a strong focus on microeconometrics. This course has two main objectives: (i) Teach students various advanced theoretical econometric tools to the students and (ii) guide them through the process of writing a research paper that explores an empirical research question in economics using adequate econometrics tools. We will study theory and application

of methods of data analysis developed for microdata pertaining to individuals, households and firms. More, precisely, We will study recent development of theory and methods for analyzing selective samples and analyzing discrete choice models.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall, Spring

ECON 6200 Financial Economics

This course provides an introduction to macro-finance and economic research. We start with the basic macro-finance frameworks and follow up with some topics such as bank runs, financial crisis, and liquidity. Prerequisites: admission to the master's program in Economics, or instructor permission.

Credit 3 units.

Typical periods offered: Spring

ECON 6210 Topics in Financial Economics

The objective of the course is to develop the basic economic models that can be used to study the valuation of different financial assets and to discuss how to confront the theory with the evidence from financial markets. The course will develop the basic model of investment under uncertainty and discuss portfolio choices in static and dynamic settings as well as market equilibria and the impact of news on the forecast-ability of excess returns. The course will describe valuation in incomplete asset markets (e.g. arbitrage pricing theory) and the extension to the valuation of firms and real estate assets.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 6211 Topics in Financial Economics: Investments

This course surveys recent developments in investments and portfolio management. The course aims to provide students with a structure for thinking about investment decisions from the perspective of a portfolio manager. We start by understanding fundamental concepts for investment theory: modern asset valuation and portfolio selection under uncertainty. We will proceed to investigate various sources of risk which financial institutions are exposed to, such as interest rate risk, credit risk and liquidity risk, and study how financial institutions manage these risks. The course will also introduce student to investment evaluation techniques. We will explore recent innovations in financial markets, as well as various frictions that arise in markets. Students will have the opportunity to apply concepts learned in class on a virtual investment and trading platform, StockTrak. Prerequisites: Econ 4011, Math/SDS 2200 (or Math/SDS 3200, Math/SDS 3211, QBA 120 and QBA 121, ESE 326.) or PolSci 363 with permission from instructor.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 6240 Money & Monetary Policy

We will explore several classic questions in the theory of money. What is money? What forms does money take? Why is money necessary-why is there a demand for money? What determines the supply of money? What is the debate on central versus free banking? Should banking be regulated, and, if so, why and how? What determines inflation? Should nations enter into fixed exchange rate regimes, or should they let the value of their monies be market-determined? What are the tensions that arise in fixed exchange rate regimes and common currency areas? How should policymakers view cryptocurrencies? Is a central bank digital currency desirable? These, and other questions, are explored within the context of theories that model the microfoundations of monetary exchange explicitly.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

ECON 6310 Behavioral Economics and Experimental Economics

Behavioral economics is an effort to incorporate ideas from psychology into economic models of behavior. We will focus on popular experimental anomalies, including the Allais and Rabin paradoxes, ultimatum bargaining, the centipede and public goods contribution games. We will examine the extent to which these are consistent with standard economic theory and how they may contradict it. The primary focus will be a critical examination of psychological theories of non-standard preferences including loss aversion, probability weighting, reciprocity, fairness and present bias. Theories of incorrect beliefs and systematic biases such as money illusion and procrastination will be covered. The class will include an introduction to experimental methods in economics, including hands-on experience in the MISSEL laboratory. A sound grounding in economic theory is essential to the course.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

ECON 6312 Game Theory and Social Behavior

Game theory is the formal toolkit for analyzing situations in which payoffs depend not only on your actions (say, watching a baseball game), but also others' (e.g., whether you meet your friends at the game). In this course, you'll learn how to solve one-shot and repeated games using tools like Nash equilibrium, subgame perfection, Bayesian Nash equilibrium, and the one-off deviation principle. We'll apply these insights to human social behavior?examining why people are altruistic, where our sense of social norms come from, and more. Along the way, discussion will leverage empirical data from lab and field experiments about how people actually behave. Thus, one of our objectives is to become familiar with experimental economics as well.

Credit 3 units.

Typical periods offered: Spring

ECON 6315 Market Design

The objective of this course is to study how to design mechanisms to allocate scarce resources and how to create successful marketplaces. We will primarily consider two topics: (1) two-sided matching markets, such as the National Resident Matching Program and the Kidney Exchange for transplants, and (2) auctions used by Google, Facebook, etc. Time permitting, a third topic will be the problem of designing and regulating market platforms, such as the e-commerce markets run by eBay, Amazon, and Craigslist, and applications marketplaces run by Apple, Google, etc., as well as the electronic financial trading platforms run by the NYSE. Prerequisite: Econ 4011. 3 units.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 6325 Public Finance

The study of fundamental forms of market failure that provide the economic rationale for government action. The first third of the class examines market failure when an economy contains externalities and public goods and the general nature of public policies that address these issues. The second third addresses particular public policies, with a focus on their intended and unintended consequences and their costs. The final third addresses taxation. Topics include the measurement and evaluation of tax burdens, the federal personal income tax, tax evasion, and proposals for fundamental tax reform. Prerequisite: Econ 4011.

Credit 3 units.

Typical periods offered: Fall

ECON 6335 Industrial Organization

Theoretical and empirical analysis of the presence and value of competitive forces in the United States economy. Theories of industrial organization and development of criteria for performance of noncompetitive industries. Prerequisite: Econ 4011.

Credit 3 units. A&S IQ: SSC EN: S

ECON 6340 Auction Theory and Practice

This course will use the theoretical and empirical tools of economics to study auctions, which are one way of buying and selling goods (or services). The course begins with a consideration of optimal bidding in different types of auctions. We will explore how to design auction rules that maximize the seller's revenue, or minimize the buyer's cost (such as in the case of government procurement). We will also study how to design auction rules that improve efficiency by reducing collusion by bidders. The course will conclude by using econometrics to analyze real-world auction data to estimate preferences and cost distributions; to determine optimal reserve prices; and to answer some questions related to auction design. Familiarity with computer programming/estimation, such as with MATLAB, R, or Julia, will be helpful. Prerequisites: Econ 4011 and Econ 413 or Econ 413W.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

ECON 6345 Labor Economics

Economic analysis of labor markets. Theory and evidence on supply of and demand for labor, explanation of wage and income differentials; impact of education on human skills and productivity. Prerequisite: Econ 401 and Econ 413.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

ECON 6360 Urban Economics

Economic function of the city and the role of the city in a national economy. Local decision making; financing of local government expenditures. An analysis of selected urban problems, such as causes and effects of housing market segregation; decay and abandonment, landlord-tenant relations, crime, and urban transport systems. Prerequisite: Econ 4011.

Credit 3 units.

Typical periods offered: Fall

ECON 6380 Current Topics in Health Economics

In this advanced undergraduate course, we will mix textbook surveys of major topics in health economics, with student-led critiques of current and classic journal articles, possibly including student presentations of own projects. The course is designed to prepare you to be informed participants in the current debate about health care policy. Core topics will include the social and individual determinants of health, health behavior and health care choices, and development of a critical perspective about the data sources and methodologies in health care research.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

ECON 6390 Economics of Education

The economics of education involves analysis of the economic and social determinants and consequences of education. Because each person's education is an investment in human capital which allows the individual to contribute to society in a productive way, education becomes a crucial determinant of an economy's ability to achieve high growth with high wages, low unemployment and strong social cohesion. This course will address three essential topics from the wide-ranging field of the economics of education. The first is demand-

side oriented and includes: (i) the measurement of the returns to education in the labor market (human capital theory; the central idea of education as human capital investment); and (ii) a characterization of the education production function, which relates the various inputs affecting a student's learning (schools, families, peers, neighborhoods, etc.) to measure outputs including labor market success, graduation rates and standardized test scores. The second important topic involves political economy and the supply side: the financing and provision of education. The third part of the course is devoted to the links between education and economic development, including cross-country differences in schooling, returns to schooling and per-capita income. Prerequisites: Econ 4011, Econ 4021, and Econ 413.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

ECON 6410 Macroeconomics of Inequality

In this course, we study the driving forces of inequality across countries, across time, and across individuals within a country. We will define and measure inequality using standard measures of economic well-being, such as income, wealth, and consumption of market goods, and we will also consider broader measures such as health outcomes. Historical cross-country data, microdata, and specific case studies will be used to evaluate theories of the sources of inequality. Key variables to be evaluated include physical capital investment, education and human capital investment, technological progress, robotization, international trade, and financial markets, among others. Prerequisites: Econ 4011 and Econ 4021.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

ECON 6420 Computational Macroeconomics

This course provides a more in depth look into quantitative methods used in contemporary macroeconomic analysis. We will cover numerical methods used in dynamic optimization. In practice, we will apply these methods to solve two major models used in macroeconomic analysis, using both Excel and Matlab. The Neoclassical Growth Model and its variants are used to study aggregate trends and aggregate effects of government policy. The lifecycle model is used to examine questions involving decision-making over the lifecycle. We will learn how to use empirical observations for the purpose of calibrating model parameters and how to conduct policy evaluation in the context of calibrated models. Our policy evaluation will focus on fiscal policy (taxes) and social security issues. Prerequisites: Econ 4011 and Econ 4021.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ECON 6425 Macro Public Finance: Inequality, Redistribution, and Insurance

This is an advanced undergraduate course on the macroeconomics of public finance, with a particular focus on the government's role in redistributing resources and providing insurance through the tax-and-transfer system and labor market policies. In the first (and longer) part we study inequality in income, wealth, and consumption as well as risks individuals face. We proceed to study how the U.S. welfare state redistributes resources and provides insurance. Most of the first part is then devoted to studying the trade-offs the government faces in the design of the welfare state. In the second part we focus specifically on imperfect labor markets and how institutions shape labor market outcomes.

Credit 3 units.

Typical periods offered: Spring

ECON 6460 Economics of Social Policy

This is an advanced undergraduate course on the economics of social policy, with a particular focus on the government's role in redistributing resources and providing insurance through the tax-and-transfer system and labor market policies. In the first (and longer) part we study inequality in income, wealth, and consumption as well as risks individuals face. We proceed to study how the U.S. welfare state redistributes resources and provides insurance. Most of the first part is then devoted to studying the trade-offs the government faces in the design of the welfare state. In the second part we focus specifically on imperfect labor markets and how institutions shape labor market outcomes.

Credit 3 units.

Typical periods offered: Spring

ECON 6520 Topics in Growth and Development

This course highlights important empirical facts concerning growth and development in various countries at different development stages. Fundamental growth theory is then provided for explaining these facts systematically and for evaluating the consequences of commonly adopted development policies. Topics vary, but may include population, human capital and labor market development, R&D and innovation, finance and growth, modernization and industrial transformation, world income disparities and poverty problems, institutions and political economy issues, environmental and social factors, and international trade and economic integration.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ECON 6710 Game Theory

This course covers advanced applications of Game Theory in economics. Topics include expected utility, strategic-form and extensive-form games with perfect information, Bayesian games, infinitely repeated games, dominance, Nash equilibrium and its refinements. We apply these tools to study strategic situations in industrial organization, auctions, bargaining, voting, and signaling games. Prerequisites: Econ 4011 and SDS 2200.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ECON 6720 Optimization and Economic Theory

An introduction to mathematical optimization and its applications within economics. The course is designed for, and should be taken by, all undergraduates considering graduate study in economics, but all interested students are welcome.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

ECON 6770 Decision Under Risk and Time

This course covers topics on individual decision making, subject to risk and to inter-temporal considerations. The emphasis is on economic modeling, which combines both theory and reality. The course will begin by establishing a framework for analyzing preferences about risky outcomes. This framework will be applied to practical problems such as portfolio choice, asset pricing and insurance. The remainder of the course will consider decision-making in the long run, with focuses on the life-cycle consumption-versus-saving decision, the problem of time inconsistency and other real-world implications.

Credit 3 units.

Typical periods offered: Fall

ECON 6840 Introduction to STATA

This short course introduces students to the data analysis and statistical software tools used in upper-level econometrics and applied economics courses. The course is designed to serve as a bridge between introductory econometrics and practical work with real-world databases. The course will be held in the computer classroom so that students can obtain hands-on experience with data preparation, workflow, and modeling using the Stata statistical software package. Emphasis throughout the course is placed on examples of applications in economics.

Credit 1.5 units.

Typical periods offered: Fall

ECON 6841 Economic Analysis With Excel

This mini course offers students the opportunity to master the advanced functionality of Microsoft Excel, and to apply those skills to common economic, statistical, and financial problems. Even those familiar with the basic functioning of Excel may be surprised to learn how little of its full capability most users access. Though basic functions will be covered, our focus will be on leveraging Excel's more advanced functions, analytical tools, reporting templates, and linking features to manage multiple workbooks, manipulate data across files, automate tasks, and produce publication quality charts, tables, and graphs. In addition to providing hands-on experience using Excel's advanced capabilities, the course is designed to serve as a bridge between introductory econometrics and practical work with real-world datasets. The course will be held in the computer classroom so that students can obtain practical experience preparing data, managing workflow, and presenting results. Added emphasis throughout the course will be placed on examples with applications in economics.

Credit 1.5 units.

Typical periods offered: Fall

ECON 6850 A First Python Course for Economists

This half-semester course offers an introduction to scientific computing in Economics using Python. It's tailored for students with minimal to no programming experience, or those looking to start using Python. Emphasis is on hands-on learning. A second focus of the course is to enable students to motivate Economics problems by summarizing and visualizing patterns and moments from data. Students will gain practical skills in utilizing Python libraries to enhance computational efficiency. If time allows, common computing methods and algorithms will be covered, particularly those relevant to discrete-time models commonly used in graduate-level studies.

Credit 1.5 units.

Typical periods offered: Spring

ECON 7100 Teaching Practicum in Economics (MA)

Opportunity for Master's candidates to assist in course instruction, tutoring, and preparation of problems, readings, and exam materials under supervision of faculty. Credit variable; maximum

Credit 3 units.

Typical periods offered: Fall, Spring

ECON 7110 Readings in Economics

Individual programs of intensive readings for Master's candidates in Economics. Students must register for a particular section with a specific faculty member, and consult with the faculty member about course requirements at the time of registration.

Credit 6 units.

Typical periods offered: Fall, Spring

ECON 7120 Research in Economics

Individual programs of intensive research for Master's candidates in Economics.

Credit 6 units.

Typical periods offered: Fall, Spring

ECON 8010 Microeconomics I

The first of a two-semester graduate sequence in microeconomic theory. The first semester considers production and costs, supply of output and demand for inputs, demands for final products, choice under uncertainty, introduction to market structure and game theory, time and capital. Prerequisite: Econ 508 (taught in August prior to the Fall term) and Econ 511 (to be taken concurrently), or with permission of instructor.

Credit 3 units. EN: S

Typical periods offered: Fall

ECON 8011 Microeconomics II

The second of a two-semester sequence in microeconomic theory. The course surveys noncooperative game theory, imperfect competition, and information economics. The course also covers some topics in competitive general equilibrium theory. Prerequisite: Econ 511 or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

ECON 8020 Macroeconomics I

The first of a two semester sequence on graduate macro theory. The focus is on determination of aggregate income, employment, and prices with emphasis on static theory and the microfoundations of macroeconomics, including consumption and investment behavior, static models of income and price determination, problems of unemployment and inflation, and alternative theories of the roles of fiscal and monetary policy.

Credit 3 units. EN: S

Typical periods offered: Fall

ECON 8021 Macroeconomics II

The second in a two-semester sequence on graduate macro theory. Dynamic problems are emphasized, particularly stability analysis, formal models of the business cycle, the role of macroeconomic policy in dynamic and stochastic models, and models of economic growth.

Credit 3 units.

Typical periods offered: Spring

ECON 8110 Applied Econometrics

Introduction to econometrics as it is applied in microeconomics and macroeconomics (modular). Topics related to the analysis of microeconomic data include maximum likelihood estimation and hypothesis testing; cross-section and panel data linear models and robust inference; models for discrete choice; truncation, censoring and sample selection models; and models for event counts and duration data. Topics related to the analysis of macroeconomic data include basic linear and nonlinear time series models; practical issues with likelihood-based inference; forecasting; structural identification based on timing restrictions and heteroskedasticity; and computational methods for hypothesis testing and model comparison.

Credit 3 units.

Typical periods offered: Fall

ECON 8111 Quantitative Methods in Economics II

Introduction to mathematical statistics designed to provide a background for the study of econometrics. Selection of topics will usually include the following: probability introduction to distribution theory, including limiting distributions and distributions of quadratic terms, Bayes Theorem, and hypothesis testing.

Credit 3 units.

Typical periods offered: Spring

ECON 8130 Structural Microeconometrics

In the course you will learn how to use microdata to estimate the primitive parameters of structural econometric models. Methods for structural estimation are increasingly used in several areas of empirical microeconomics. Students interested in all applied areas in microeconomics are encouraged to take this class. Methods will be illustrated with applications drawing from several fields (Labor Economics, Family Economics, Development Economics, Empirical Industrial Organization, Health Economics, Law & Economics, Urban Economics, Empirical Public Economics, Environmental Economics, Economics of Education, etc.) and representing the research interests of the audience. We will cover the estimation of static models, but we will emphasize the use of dynamic structural models. We will cover frontal methods (i.e., methods that involve solving the economic problem inside a estimation routine) as well as the methods that avoid the computational burden associated with a full-solution approach to estimation. We will also go over methods to estimate the parameters of static and dynamic games. There is no final exam. Grades are based on computational problem sets and research paper proposal using methods covered in class.

Credit 3 units.

Typical periods offered: Spring

ECON 8135 Advanced Microeconometrics

The focus of the class is in identifying causal relations in social sciences. We revisit the linear model, its asymptotic properties and the usual tests of hypothesis researchers conduct in assessing the model. We also study robust inference; bootstrap methods; M-estimators and models with generated regressors; instrumental variables estimators; GMM and system linear estimators; models for panel data with emphasis in non-linear models; instrumental variables for non-linear models; semi-parametric and non-parametric estimators; models for sample selection and attrition and standard methods commonly used in the evaluation of program and policies: Randomized trials; randomized inference; matching methods; regression discontinuity design; difference-in-Differences and establishing bounds of parameters. We will emphasize the theory of each topic and we will also illustrate them discussing applications from papers published in the recent literature. Prerequisite: Econ 513

Credit 3 units.

Typical periods offered: Fall, Spring

ECON 8212 Financial Infrastructure

This course explores recent developments on the interaction between market power and financial markets. Market power is pervasive across all sectors of economic activity. In financial markets, market power is essentially an outcome of market structure. Thus decentralized trading, either in over the counter or fragmented markets, is inherently associated with market power. Implications of market power are wide-ranging. Market power can be a source of market incompleteness. As a consequence, market power directly affects financial products brought to the market. Thus, misallocation can arise due to market power. We will start the course with properly introducing the concept of market power and various ways of measuring it. We will then proceed to understand the particularities of market power in financial markets.

We will pay attention to the implication of financial infrastructure for innovation in financial products. We will conclude with a set of lectures that address questions at the intersection between financial markets and products markets and identify open areas for research.

Credit 1.5 units.

Typical periods offered: Spring

ECON 8220 Topics in Monetary Economics and Macroeconomics

Topics for this course to be determined by the instructor.

Credit 3 units.

Typical periods offered: Spring

ECON 8230 International Macroeconomics

The aim of this course is to cover several topics related to international macroeconomics, such as open economy real business cycle models, small open economy models, sovereign default models, and models of international capital flows. The course is intended to provide students with a battery of tools that will help them to identify relevant questions and the right approach (methodology) to solving them; students will also learn different quantitative methods for solving the models that we study throughout the semester. For the student, the goals are to start thinking about possible research questions, to learn how to develop a research plan, and to transmit ideas in an effective way.

Credit 3 units.

Typical periods offered: Spring

ECON 8240 Quantitative Macroeconomic Theory

Our goal in this course is to learn tools that help us to relate models to data, that is, we aim to learn how to answer quantitative questions and we will learn to do so via intensive computational work by students. We will learn how to construct and characterize equilibrium allocations of representative agent models, overlapping generations models and heterogeneous agents economies. We will learn the computational tools to solve those artificial economies in stationary and non-stationary environments such as business cycles or development processes taking good care of distributions and aggregate consistency. Much emphasis of this course is on the calibration process: we will spend much time discussing the mapping from theory to data. The grade will be a weighted average of regular homeworks, class presentations and a referee report.

Credit 3 units.

Typical periods offered: Fall

ECON 8280 Seminar in Macro and Monetary Economics

Topics chosen by instructor from modern empirical and theoretical research papers in macroeconomics. Student participation in class discussions of research papers is essential. Topics vary, but may include the link between capital markets, consumption and investment, imperfect competition and macroeconomic fluctuations, real business cycles models, and post-Keynesian macroeconomics.

Credit 1.5 units.

Typical periods offered: Fall

ECON 8310 Economic Growth

The objective of this course is to provide an introduction to the mathematical techniques necessary to study stochastic dynamic economies with particular emphasis on models of growth and asset pricing. The first part of the course will cover basic results in continuous time stochastic process, and develop the essentials of stochastic calculus. In the second part, those tools will be used to analyze a variety of issues related to growth and asset pricing. A partial sample of the questions that will be discussed includes: The effects of

policy and real instability on growth paths. The impact of tax and fiscal policies on economic performance. The equilibrium determination of asset prices and their relationship with real shocks. The connection between aggregate quantities and the price of fixed income securities. Credit 3 units.

Typical periods offered: Fall, Spring

ECON 8320 Growth Theories and Growth Models

This is a course in growth theory, which means it is a course about coherent mathematical formalizations of how some people think economic growth has come around. There are too many theories, though, and most of them have little to do with anything we have ever observed in human history. Some theories are elegant and parsimonious, even beautiful, but they belong to the science fiction section: they talk about the economic growth that could have possibly happened on some planet, but did not happen on ours. One should learn about their existence, and make a memo to never again walk along those paths to try understanding economic growth on planet Earth. Other theories, e.g. those assuming exogenous growth, are really not theories but useful accounting frameworks from where one should start asking the modeling questions. The course is structured along a history of economic thought line: it begins with the classical economists (Ricardo, Malthus and Marx) as they had theories about the necessary absence of economic growth in the long run, and it ends with the current theories about increasing returns, widespread externalities and the weightless economy. The approach is fairly rigorous, but it assumes that participants read the original articles/books and go through the proofs themselves. As we go along we try to separate good theories from bad theories and, more important, we try to separate theories from models, the latter being theories that have some qualitative and quantitative consistency with observed facts. It is models, at the end, that we want to learn about.

Credit 3 units.

Typical periods offered: Spring

ECON 8340 Seminar in Dynamic Economics

The purpose of this seminar is to expose advanced graduate students to people doing cutting-edge research in broadly-defined dynamic economics. Outside visitors and department staff will lecture and lead discussions on a variety of current research topics including macroeconomic theory, financial markets and fiscal policy, money and monetary policy, asset pricing, international finance, growth and business cycles, development macroeconomics and other areas of interest. Prerequisites are Econ 501 and 502 or their equivalent. Credit 1.5 units.

Typical periods offered: Fall, Spring

ECON 8345 Seminar On Macro and Monetary Economics

The purpose of this seminar is to expose advanced graduate students to people doing cutting-edge research in broadly-defined dynamic economics. Outside visitors and department staff will lecture and lead discussions on a variety of current research topics including macroeconomic theory, financial markets and fiscal policy, money and monetary policy, asset pricing, international finance, growth and business cycles, development macroeconomics and other areas of interest.

Credit 3 units.

Typical periods offered: Spring

ECON 8350 Seminar in Growth and Development

This course is designed to discuss frontier research in economic growth and development. Topics are chosen by the instructor from empirical and theoretical research in the areas. Issues to be studied vary but may include the foundation of modern theory, the dynamic process of industrial transformation, technological progress, human and

physical capital accumulation, financial development, as well as the role of government and institutional factors in advancing a market economy. Student participation in class discussions of research papers is essential.

Credit 1.5 units.

Typical periods offered: Spring

ECON 8410 Topics in Labor Economics I

The course proceeds in four parts. First, a number of main themes in labor economics is covered, including labor demand, labor supply, and life-cycle models. The second section is a chronology of the female labor supply literature, which traces the development of research on women's labor supply from the early 1960s to the present. The third section is an economic analysis of unions, collective bargaining, and strikes. The final section is a detailed analysis of an assortment of recent papers, which represent the best current research in labor economics.

Credit 3 units.

Typical periods offered: Fall

ECON 8415 Topics in Labor Economics II

Course will examine three topics in labor economics: human capital (including the demand for education and the determinants of earnings); economics of the family (including models of the marriage market and bargaining models of marriage); formation of preferences (including habit formation and rational addiction). All three topics are closely associated with Gary Becker. Course will examine his contributions and the view of his critics.

Credit 3 units.

Typical periods offered: Spring

ECON 8420 The Macroeconomics of Labor Markets

This is a graduate level course in macro labor economics. The course consists of two main parts. In the first part, we will focus on the labor supply decisions of households. In the second part, we will focus on search and matching in frictional labor markets. Throughout we will emphasize how to solve these models numerically.

Credit 3 units.

Typical periods offered: Spring

ECON 8610 Economics of Industrial Organization I

Industrial organization is the study of competition between firms in the same industry. This course will survey topics in IO, including models of oligopoly and cartel behavior, pricing, vertical relationships, and antitrust policy. The course will also survey common empirical methods with an emphasis on their applications to questions in industrial organization. By the end of the course, students will begin to formulate and pursue their own research questions.

Credit 3 units.

Typical periods offered: Fall

ECON 8620 Topics in Empirical Industrial Organization

This course will focus upon empirical research investigating the relationships between the structure of industry, firm conduct, and industry performance. Topics will include the study and inference of firm costs, tests for market power and collusion, and the study of industries with differentiated products. Special attention will be paid to the actual implementation of relevant econometric techniques.

Credit 3 units.

Typical periods offered: Spring

ECON 8680 Economics of Industrial Organization

Focus on economics and politics of regulation from theoretical and empirical perspectives. Concepts of strategic behavior, imperfect information and agency theory used to examine various regulatory issues and the incentives created by regulatory policy; evaluation of empirical papers which analyze the effects of regulation in different industries. Study of the impacts of political forces on the development, design and implementation of regulatory policy. Econ 555 is strongly recommended.

Credit 3 units.

Typical periods offered: Fall

ECON 8710 Quantitative Methods I

Topics in mathematics of particular relevance for economics. The first half of the course provides an introduction to real analysis. The second half consists of modules on special topics. In recent years, modules have included: an introduction to Lebesgue measure and integration, support and separation theorems for convex sets, fixed point theorems, and monotone comparative statics.

Credit 3 units.

Typical periods offered: Fall

ECON 8720 Topics in Advanced Theory I

Topics covered are chosen by the instructor from competitive general equilibrium and/or decision theory.

Credit 3 units.

Typical periods offered: Fall

ECON 8725 Topics in Advanced Theory II

Topics covered are chosen by the instructor from game theory and information economics.

Credit 3 units.

Typical periods offered: Spring

ECON 8730 Topics in Advanced Economic Theory

The application of modern mathematical economics to the existence of a general equilibrium, the equivalence of competitive equilibrium and Pareto optimality, and problems in welfare economics, economic dynamics and uncertainty.

Credit 3 units.

Typical periods offered: Fall

ECON 8740 Topics in Microeconomic Theory

This class covers select topics in microeconomics including choice theory, market design, and mechanism design using tools from discrete mathematics such as matroids and lattices.

Credit 3 units.

Typical periods offered: Spring

ECON 8810 Behavioral Economics

The course surveys research at the intersection of psychology and economics. Topics include: prospect theory, reference dependence, present-biased preferences, self control, other-regarding behavior, and mental accounting. The course devotes equal attention to theoretical models and their empirical applications, including both lab experimental methods and analysis using field data. Prerequisites: Econ 503 and Econ 504.

Credit 3 units.

Typical periods offered: Fall

ECON 8820 Matching and Assignment

This course introduces you to formal modeling in two-sided matching and assignment problems and suggests some interesting directions for future research. We will discuss de-centralized matching markets (e.g., the marriage market), matching markets through institutions (e.g., medical labor market and school choice problem), and assignment problems (e.g., housing allocation). We study existing or new market institutions, understand their properties, and think about whether they can be reengineered or improved.

Credit 3 units.

Typical periods offered: Fall, Spring

ECON 8830 Bias and Decisions in Economics

In this course, we will read and discuss economic research on bias and the criminal justice system. There are two central questions in the course. First: how to define and uncover unwarranted bias in a strategically complex setting with information constraints. Second: how to apply these methods to the particular setting and data of criminal justice. In addressing these questions, we will weigh the value of different definitions of bias and different econometric approaches to the criminal justice system. Topics include: outcome tests, judge instruments, binary classification analysis, and modeling the incentives of citizens, police, prosecutors, judges, and parole/probation officers. Prerequisite: Econ 503, Econ 504, Econ 512, Econ 5161.

Credit 3 units.

Typical periods offered: Spring

ECON 8910 Public Economics

Topics in welfare economics and public choice including classical welfare theorems, market failure and externalities, cost benefit analysis, public goods, Lindahl equilibrium, Coase's theorem, voting models of allocation, and other topics as time and interest allows.

Credit 3 units.

Typical periods offered: Fall

ECON 8920 Taxation

An economic analysis of principles and approaches to taxation, with emphasis on the major forms of taxation employed in the federal and state-local tax structures. Specific problems relating to efficiency, equity, shifting, and incidence are among the topics covered.

Credit 3 units.

Typical periods offered: Fall

ECON 8997 Economics Elective (GRAD)

This course is for 6000 level transfer credit.

Credit 0 units. EN: S

Typical periods offered: Fall, Spring

ECON 9010 Money and Macroeconomics Workshop

This is a two-semester workshop covering contemporary topics in money and macroeconomics with presentations by economics department faculty and scholars from other institutions. Students are expected to participate in the seminar discussion and may be asked to read research papers and present their contents to the class.

Credit 3 units.

Typical periods offered: Fall, Spring

ECON 9020 Economic Theory Workshop

This is a two-semester workshop covering contemporary topics in economic theory with presentations by economics department faculty and scholars from other institutions. Students are expected to participate in the seminar discussion and may be asked to read research papers and present their contents to the class. Credit 3 units.

Credit 3 units.

Typical periods offered: Fall, Spring

ECON 9030 Applied Economics Workshop

This is a two-semester workshop covering topics in applied economics with presentations by economics department faculty and scholars from other institutions. Students are expected to participate in the seminar discussion.

Credit 3 units.

Typical periods offered: Fall, Spring

ECON 9040 Development & Public Policy Workshop

This is a two-semester workshop covering topics in applied economics with presentations by economics department faculty and scholars from other institutions. Students are expected to participate in the seminar discussion.

Credit 3 units.

Typical periods offered: Spring

ECON 9050 Seminar On Work, Family, and Public Policy

This course examines various topics in labor economics and the economics of the family, including but not limited to, the allocation of time, family bargaining, and the economics of health. The course will be integrated with a biweekly workshop series. Thus, there will be an outside speaker every other Monday. Students will be expected to read and report on papers in the literature. Students will also be expected to write a paper and present it during the spring semester.

Credit 3 units.

Typical periods offered: Fall

ECON 9051 Seminar On Work, Family, and Public Policy I

This course is a continuation of "Seminar on Work, Family and Public Policy", which examines various topics in labor economics and the economics of the family, including but not limited to, the allocation of time, family bargaining, and the economics of health. There will be an outside speaker every other Monday. Students will be expected to read and report on papers in the literature. Students will also be expected to write a paper and present it during the spring semester.

Credit 0 units.

Typical periods offered: Spring

ECON 9130 Empirical Research Seminar

Seminar to exchange ideas and improve the quality of empirical research. Each student will present research to the seminar at least once during the semester. The instructor and other students will comment on the technique and results of the work presented. Students are encouraged to present their own research, but students early in their graduate studies may present empirical work from relevant literature in an area of their interest. Students with interests in empirical topics in both macro and micro economics are welcome in the seminar. Credit 3 units.

Credit 3 units.

Typical periods offered: Fall

Economics, Accelerated BA/ MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 credits of graduate-level coursework
 - This program requires the completion of 30 credits of graduate-level coursework, which is equivalent to two to three semesters of enrollment, depending on course load.
- **Degree Length:** One year minimum, consecutive Fall and Spring semesters
 - The Department of Economics offers a Five-Year Accelerated Master's Degree to qualified undergraduate students at Washington University. Additional information about the Five-Year Accelerated Master's Degree program requirements and application process can be found on the department website. Applications must be submitted by March 15 of the undergraduate's senior (or final) year, with February 15 as a preferred application deadline. GRE exam scores and letters of recommendation are not required, and there is no application fee. In lieu of reference letters, undergraduate applicants must schedule an informal interview with Professor Grace Johnson prior to submitting the application. The program is available only to Washington University students currently in their senior (or final) year and only for continuous enrollment in the next academic year. There is no option for deferred admissions. Interested students are encouraged to discuss their intent to apply with Professor Johnson by October of the senior (or final) year. The Academic Coordinator can explain and assist with the application process. Admission to the master's program is provisional, pending the successful completion of the BA degree.
- Students normally complete five required courses and five elective courses. Students can potentially substitute required courses with more advanced PhD-level courses with prior approval from a director of the MA program.



- With preapproval, students may apply two courses at the 4000 level or above (typically 6 units) that were completed for the undergraduate degree toward the master's degree program requirements. These preapproved undergraduate courses must be completed with a final grade of B or higher.
- Students must complete a capstone experience consisting of either a capstone exam, a capstone project (3 units of credit), or a master's thesis (up to 6 units of credit).
- **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if they are enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with a director of the MA program to ensure proper enrollment prior to the Add/Drop deadline.
- **Grade Requirement:** A minimum grade of C– is required for coursework to count toward the degree. However, students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units. Note that plus and minus marks alter the numerical value of a letter grade.

Required Courses

Students must complete the following 15 units:

Code	Title	Units
ECON 6001	Microeconomics (MA)	3
ECON 6002	Macroeconomics (MA)	3
ECON 6110	Econometrics	3
ECON 6120	Computational and Empirical Methods in Economics	3
ECON 6200	Financial Economics	3
Total Units		15

Elective Courses

Most students will complete five economics electives (15 units) drawn from economics courses at the 6000 level or higher.

- With preapproval from a director of the MA program, up to three electives (typically 9 units) may be drawn from other departments or schools.
- Up to 3 units of elective credit may come from completion of a capstone project, or up to 6 units of elective credit may come from completion of a thesis. Consult the next section for additional details.

Additional Information

- With preapproval from a director of the MA program, students may complete ECON 8010 Microeconomics I in lieu of ECON 6001 Microeconomics (MA), ECON 8020 Macroeconomics I in lieu of ECON 6002 Macroeconomics (MA), and/or ECON 8110 Applied Econometrics in lieu of ECON 6110 Econometrics.
- Students interested in ECON 8010 Microeconomics I, ECON 8020 Macroeconomics I, and/or ECON 8110 Applied Econometrics are welcome to attend the math/statistics "boot camps" for first-year PhD students. The "boot camps" occur in late July through mid August, and they meet in person. Interested students should contact a director of the MA program or the undergraduate Academic Coordinator in the Department of Economics for further information.
- Students must complete a capstone experience consisting of either a capstone exam, a (3-unit, semester-based) capstone project, or a master's thesis. (Refer to further details about the master's thesis in the next section.)
 - The capstone project is a directed, independent-study project, supervised by a faculty member. A student may earn 3 units of elective credit that can be applied toward the 30 units required for the MA degree. An application is required, and approval must be granted during the semester prior to enrollment in the capstone project course. Interested students should consult with a director of the MA program. Students who do not satisfactorily complete the capstone project must complete the capstone exam.
- The capstone exam is a comprehensive examination reflecting the core required classes in the MA program. The exam will be administered during the next-to-last week of classes in the student's semester of graduation. Scheduling details will be provided by a director of the MA program. As with course grades, the exam must be passed with a grade of B or better to count toward the degree.
- Students are expected not to carry, at one time, any more than 9 units for which an I (incomplete), X (final examination missed), or N (grade not yet submitted) is recorded. The Office of Graduate Studies, Arts & Sciences, may deny a student permission to register for the subsequent semester when there are more than 9 unfinished units.

Thesis Requirements/Details

Students are required to have a capstone experience, and this may (optionally) take the form of an MA thesis. Three units of credit can be awarded each semester, for a maximum of 6 units toward degree requirements, for students writing a thesis. The thesis must satisfy the following requirements:

1. An undergraduate, senior Honors Thesis may not be used as the MA thesis. The MA thesis can be related to the senior Honors Thesis, but it must be a distinctly different paper. Consult the Academic Coordinator in the Department of Economics, a director of the MA program, and/or the Office of Graduate Studies, Arts & Sciences, for thesis guidelines.
2. Students writing an MA thesis must work with a faculty advisor. Ideally, finding an advisor and beginning research should begin during the senior year of the undergraduate degree.
3. The thesis topic is subject to approval by the master's student's faculty advisor and by a director of the MA program. A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. The form must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
4. A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.
5. MA students must defend their thesis before a group of selected faculty. The defense date and the selected faculty committee will be arranged between the student and that student's advisor. Students are required to make the full text of the thesis available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the post-defense review period; students should check with their faculty for further guidelines.
6. After the defense, the student must submit an electronic copy of the thesis online to the Office of Graduate Studies, Arts & Sciences via BePress at the university library. The degree program is responsible for delivering the Master's Thesis Approval form (PDF), signed by the committee members at the defense and then by the program chair, to the Office of Graduate Studies, Arts & Sciences. Students who defend their theses successfully have not yet completed their master's requirements; they finish earning the degree only when their thesis submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

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 Website: <http://economics.wustl.edu/five-year-accelerated-masters-degree>

Economics, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 credits of graduate-level coursework
 - This program requires the completion of 30 credits of graduate-level coursework, which is equivalent to two to three semesters of enrollment, depending on course load.
- **Degree Length:** One-year minimum (consecutive fall and spring semesters)
 - Students normally take five required courses and five elective courses. Students can potentially substitute required courses with more advanced PhD-level courses with prior approval from a director of the MA program.
 - Students must complete a capstone experience consisting of either a capstone exam, a capstone project (3 units of credit), or a Master's thesis (up to 6 units of credit).
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A grade point average of B (3.0) or higher must be maintained in graduate coursework. The minimum residence requirement is one full academic year of graduate study. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units. Note that plus and minus marks alter the numerical value of a letter grade.

Information about required and elective courses is available on the Master's Degree Program Structure page of the Department of Economics website.

Required Courses

Students must complete the following 15 units:

Code	Title	Units
ECON 6001	Microeconomics (MA)	3
ECON 6002	Macroeconomics (MA)	3
ECON 6110	Econometrics	3
ECON 6120	Computational and Empirical Methods in Economics	3
ECON 6200	Financial Economics	3
Total Units		15

Elective Courses

Most students will complete five economics electives (15 units) drawn from economics courses at the 6000-level or higher.

- With preapproval from a director of the MA program, up to three electives (9 units) may be drawn from other departments or schools.
- Up to 3 units of elective credit may come from the completion of a capstone project or up to 6 units of elective credit may come from the completion of a thesis.

Additional Information

- With preapproval from a director of the MA program, students may complete ECON 8010 Microeconomics I in lieu of ECON 6001 Microeconomics (MA), ECON 8020 Macroeconomics I in lieu of ECON 6002 Macroeconomics (MA), and/or ECON 8110 Applied Econometrics in lieu of ECON 6110 Econometrics.
- Students interested in ECON 8010 Microeconomics I, ECON 8020 Macroeconomics I, and/or ECON 8110 Applied Econometrics are welcome to attend the math/statistics “boot camps” for first-year PhD students. The “boot camps” occur in late July through mid August, and they meet in person. Interested students should contact a director of the MA program or the undergraduate Academic Coordinator in the Department of Economics for further information.
- Students must complete a capstone experience consisting of either a capstone exam, a (3-unit, semester-based) capstone project, or a master's thesis. (Refer to further details about the master's thesis in the next section.)
 - The capstone project is a directed independent study project that is supervised by a faculty member. A student may earn 3 units of elective credit that can be applied toward the 30 units required for the MA degree. An application is required, and approval must be granted during the semester prior to enrollment in the capstone project course. Interested students should consult with a director of the MA program. Students who do not satisfactorily complete the capstone project must complete the capstone exam.
 - The capstone exam is a comprehensive examination reflecting the core required classes in the MA program. The exam will be administered during the next-to-last week of classes in the student's semester of graduation. Scheduling details will be provided by a director of the MA program. As with course grades, the exam must be passed with a grade of B or higher to count toward the degree.
- Students are expected not to carry, at one time, any more than 9 units for which an I (incomplete), X (final examination missed), or N (grade not yet submitted) is recorded. The Office of Graduate Studies, Arts & Sciences, may deny a student permission to register for the subsequent semester when there are more than 9 unfinished units.

Thesis Requirements/Details

Students are required to have a capstone experience, and this may (optionally) take the form of an MA thesis. Three units of credit can be awarded each semester, for a maximum of 6 units toward degree requirements, for students writing a thesis. The thesis must satisfy the following requirements:

1. Students writing an MA thesis must work with a faculty advisor. Ideally, finding an advisor and beginning research should begin during the first semester of the degree program.
2. The thesis topic is subject to approval by the master's student's faculty advisor and by a director of the MA program. A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
3. A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.
4. MA students must defend their thesis before a group of selected faculty. The defense date and the selected faculty committee will be arranged between the student and that student's advisor. Students are required to make the full text of the thesis available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty for further guidelines.
5. After the defense, the student must submit an electronic copy of the thesis online to the Office of Graduate Studies, Arts & Sciences via BePress at the university library. The degree program is responsible for delivering the Master's Thesis Approval form, signed by the committee members at the defense and then by the program chair, to the Office of Graduate Studies, Arts & Sciences. Students who defend their theses successfully have not yet completed their master's requirements; they finish earning the degree only when their thesis submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

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Economics, PhD

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Website: <http://economics.wustl.edu/graduate>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30
- **Degree Length:** 5 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B– is required for coursework to count toward the degree.

PhD in Economics

General Course Requirements

The PhD in Economics takes five years to complete and requires at least 30 units of 5000-level courses with a 3.0 grade point average. Students may transfer up to 10 units of graduate credits completed elsewhere, but they are advised to make such a transfer only after consultation with the director of graduate studies.

Courses taken must include the following:

1. Microeconomic theory and macroeconomic theory: 12 units (ECON 8010 Microeconomics I, ECON 8011 Microeconomics II, ECON 8020 Macroeconomics I, and ECON 8021 Macroeconomics II); and
2. Quantitative methods and econometrics: 9 units (ECON 8710 Quantitative Methods I, ECON 8111 Quantitative Methods in Economics II, and ECON 8110 Applied Econometrics).

A Typical Chronology of PhD Study

Summer Before the First Year (August)

- Mathematics review and statistics review

Year 1

- Core courses:

Fall Semester	Spring Semester
ECON 8010 Microeconomics I	ECON 8011 Microeconomics II
ECON 8020 Macroeconomics I	ECON 8021 Macroeconomics II
ECON 8710 Quantitative Methods I	ECON 8111 Quantitative Methods II
ECON 8110 Applied Econometrics	

Year 2

- Preliminary exams in late August; retake preliminary exams (if necessary) in January
- Field courses
- Research paper proposal

Year 3

- Complete research paper
- Dissertation proposal

Year 4

- Write dissertation
- Prepare and present job market paper

Year 5

- Enter the job market
- Finish and defend the dissertation

More information on degree requirements may be found on the Department of Economics website.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

In Economics, students must qualify to advance to the dissertation stage in each of three core fields: microeconomics, macroeconomics, and econometrics. In each field, students may qualify by achieving an A– or higher in their first-year coursework or through a qualifying exam. Exams are given in August at the beginning of the second year, with a second attempt available in January.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Economics PhD: Pre-Candidacy Requirements

Doctoral candidacy in the Economics PhD program is achieved upon successful completion of the following:

- Maintain a minimum cumulative GPA of 3.0.
- Pass required coursework.
- Pass qualifying exams in three fields: microeconomics, macroeconomics, and econometrics. Each exam may be waived via consistent A-level coursework or departmental vote.
- Complete field requirements as determined by the program.
- Form a dissertation advisory committee (Research Advisory Committee).
- Prepare a dissertation proposal.
- Successfully defend the dissertation proposal orally and obtain committee approval.

Candidacy is achieved once the dissertation proposal has been successfully defended and approved. Students are expected to complete all pre-candidacy requirements, including the dissertation proposal, by the end of their third year and to advance to candidacy by the beginning of their fourth year.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's

transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All

members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.

2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate

Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Students who do not pass preliminary qualifications are usually eligible for a master's degree based on coursework in lieu of a PhD.

The master's degree requires the following:

- Completion of a minimum of 30 graduate credit units;
- A minimum cumulative GPA of 3.0;
- Completion of the core theory requirements;
- Completion of the core econometrics requirements; and
- Completion of additional specialization coursework requirements determined by the department.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

The aspiration of many of our PhD students is to become tenure-track assistant professors immediately following graduate school. Along with research, teaching is an important component of their future jobs. Thus, training PhD students as teachers (as well as researchers) is important both for postgraduate job placement as well as for ensuring continued success in the postgraduate placement. The communication skills gained through teaching are important in any career. Teaching any subject is also an invaluable way to sharpen one's expertise.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Economics requires three preparatory activities for their PhD students:

1. Before the first semester of serving in an Assistant in Instruction (AI) role, the student will participate in at least one graduate-student focused workshop hosted by the Center for Teaching and Learning (CTL). (For most students, participation in at least one workshop will occur during the first year of the PhD program or during the summer between the first and second years.)
2. The student will attend the CTL's Graduate Student Mentored Teaching Orientation (in August of the second year of the PhD program) and engage with the associated digital resources on Canvas provided by the CTL.
3. The student will attend the Department of Economics' orientation meeting for second-year PhD students.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Typically, graduate students serving in an AI role will have 10 MER units per semester (up to a maximum of 60 MER units). Students usually are assigned an AI role for each semester of their second, third, and fourth years of study.

Whether an assignment is full time (10 MER units) or half time (5 MER units) depends on the enrollment in the course and in the course demands of the AI. Generally, graduate students serving in an AI role will have 10 MER units per semester, comprised of a full-time AI role or two half-time AI roles.

- 10 MER units means that the student is an AI for a single course.
- 5 MER units means that a student is a half-time AI. Generally, a student will have two half-time assignments during a given semester.

PhD students can serve as AIs in almost any course offered by the department, as long as they have the necessary prerequisite knowledge and have been approved for the role by the supervising faculty mentor.

Typical AI duties include (but are not limited to) tutoring via office hours, leading review sessions, providing logistical support for the course, answering student questions about the course or assignments, managing Canvas, grading and evaluating assignments, grading exams, preparing and assigning assessments, and administering/proctoring quizzes or exams.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

If a PhD student independently teaches a 3-unit, full-semester course, then this will be counted as 20 MER units.

One section of a half-semester course will be counted as 5 MER units and will be reported under AI in Workday. Available courses for this option include the following:

- ECON 4830 Mathematical Economics
- ECON 4840 Data Analytics for Economics in STATA
- ECON 4841 Data Analytics for Economics in Excel
- ECON 4850 Economic Analysis With Python
- ECON 6850 A First Python Course for Economists

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement, *plus one of the following pathways:*

Pathway #1

ASGS 8010	Take six times

Pathway #2

ASGS 8005	Take two times
ASGS 8010	Take five times

Pathway #3

ASGS 8005	Take four times
ASGS 8010	Take four times

Pathway #4

ASGS 8005	Take six times
ASGS 8010	Take three times

Pathway #5

ASGS 8005	Take eight times
ASGS 8010	Take two times

Pathway #6

ASGS 8005	Take ten times
ASGS 8010	Take one time

Pathway #7

ASGS 8005	Take twelve times

Pathway #8

ASGS 8010	Take four times
ASGS 8020	Take one time

Pathway #9

ASGS 8005	Take two times
ASGS 8010	Take three times
ASGS 8020	Take one time

Pathway #10

ASGS 8005	Take four times
ASGS 8010	Take two times
ASGS 8020	Take one time

Pathway #11

ASGS 8005	Take six times
ASGS 8010	Take one time
ASGS 8020	Take one time

Pathway #12

ASGS 8005	Take eight times
ASGS 8020	Take one time

Pathway #13

ASGS 8005	Take six times
ASGS 8010	Take one time
ASGS 8020	Take two times

Pathway #14

ASGS 8010	Take two times
ASGS 8020	Take two times

Pathway #15

ASGS 8005	Take four times
ASGS 8020	Take two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students can teach a department-approved semester-long undergraduate course independently for 20 MER units.

Students can teach a department-approved, partial-semester course for 5 MER units per section. Available courses for this option include ECON 4830 Mathematical Economics, ECON 4840 Data Analytics for Economics in STATA, ECON 4841 Data Analytics for Economics in Excel, ECON 4850 Economic Analysis With Python, and ECON 6850 A First Python Course for Economists.

Optional Pathways A, B, and C

Pathway A

ASGS 8020	Take two times

Pathway B

ASGS 8005	Take four times
ASGS 8020	Take one time

Pathway C

ASGS 8005	Take eight times



Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

Students take one MPE for 20 MER units and work with their graduate supervisor for permission.

Optional Pathway D

ASGS 8120

Take one time

Education

The Department of Education at Washington University in St. Louis is an interdisciplinary community that bridges the theoretical and research foundations of education, traditional academic disciplines (e.g., sociology, psychology, history), and the professional practice of education. Our academic programs span a variety of disciplinary perspectives, methodological approaches (e.g., quantitative, qualitative), and levels of analysis ranging from the individual to complex systems. Each of us works from a disciplinary perspective, but we embrace and utilize other perspectives because such disciplinary synergies are critical to understanding and impacting the complex world of education. Individually and as a community, we are working to change education and other systems that perpetuate inequity and inequality. Further, our departmental theme of “Equalizing Educational Opportunity: Equity, Inclusion, and Success in Classrooms, Schools, and Communities” encapsulates this work.

The Department of Education offers two pathways for full-time graduate study.

In partnership with the Brown School of Social Work at Washington University in St. Louis, the Department of Education offers the **MSW/MAEd** dual degree program. After completing one year in the Brown School toward the MSW, students will spend three semesters in the Department of Education to complete their MAEd in the specialization of Educational Studies. Students will then finish their MSW during their final spring semester for a total of three years in the dual degree program.

The **PhD in Education** is aimed at strengthening and deepening the student's analytical understanding of education in both research and practice. Students working toward a PhD in Education are expected to acquire an understanding of education as a complex social, cultural, moral, and political activity undergirded by a commitment

to advancing educational equity and countering the status quo. Students further engage with education as a field of study with rich literature bases and strong ties to disciplinary knowledge, classroom practice, and a variety of technologies. Through the PhD in Education, students work closely with our faculty who bring special interests and expertise to the examination of educational interactions in such contexts as schools, families, and other cultural institutions. Students are expected to acquire theoretical and empirical expertise in an area of focus — Educational Policy Studies or Educational Psychology — even as they demonstrate their broader understanding of educational processes and problems. Moreover, students are expected to acquire methodological competence in empirical inquiry and to pursue research questions that are of interest and import for the student individually as well as for a larger educational community. Graduates of the PhD program will be prepared to join the community of professional scholars and educators who contribute to our understanding of the complexity of education.

The **Graduate Certificate Program in Higher Education** (GCPHE) is designed to provide an overview of historical and contemporary issues in higher education for doctoral students who wish to gain a greater understanding of higher education research, policy, assessment, and/or administrative practices. Current Washington University doctoral students who are interested in pursuing the Graduate Certificate in Higher Education may begin taking courses pursuant to the certificate upon entry into the university.

Contact: Alyssa McDonald
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Faculty

Chair

Kit Wellman
Professor
PhD, University of Arizona

Director of Graduate Studies

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Assistant Professor
PhD, University of Wisconsin, Madison

Director of Undergraduate Studies

Michelle Purdy
Associate Professor
PhD, Emory University

Department Faculty

Andrew Butler

Professor

PhD, Washington University in St. Louis

Rowhea Elmesky

Associate Professor

PhD, Florida State University

Kerri Fair

Lecturer

EdD, Webster University

Nadirah Farah Foley

Assistant Professor

PhD, Harvard University

Lisa Gilbert

Senior Lecturer

PhD, Saint Louis University

Bronwyn Nichols Lodato

Assistant Professor

PhD, University of Chicago

Lyndsie Schultz

Lecturer

PhD, Washington University in St. Louis

Carol Camp Yeakey

Marshall S. Snow Professor of Arts & Sciences

PhD, Northwestern University

Department Staff

Jessica Bockskopf

Field Placement Specialist

EdD, Maryville University

Judith H. Joerding

Kappa Delta Pi Advisor

EdD, Saint Louis University

Alyssa McDonald

Student Services Coordinator

MEd, Middle Tennessee State University

Mel Nicolas

Administrative Coordinator, Faculty Support

BS, Missouri Southern State University

Degree Requirements

- Education, MAEd/MSW Dual Degree (p. 249)
- Education, PhD (p. 251)
- Higher Education, Graduate Certificate (p. 256)

Courses

EDUC 5001 Reading in the Content Areas

This course will focus on reading comprehension, reading and writing in content areas, reading assessment, and reading curriculum evaluation.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5002 Diagnosis and Correction of Reading Disabilities

This course is the second of three courses on teaching reading and writing, with an emphasis on readers, texts, and assessment. The purposes of this course are to address issues of the differences and disabilities that may occur in reading processes; evaluation of students' reading skills; analysis of texts for their use by readers; and designing classroom reading activities that assist students in all kinds of materials. Prerequisite: Completion of EDUC 4681/6681 AND completion of EDUC 470/670 OR permission of instructor.

Credit 3 units. EN: S

Typical periods offered: Fall

EDUC 5003 Instructional Interventions in Reading for Adolescents and English Language Learners

Education 5253 is the first of two courses designed to increase the ability of secondary school teacher candidates to support literacy development for middle and high school students. Strategies of instructional intervention will be taught, modeled, and observed. The theoretical base of educational research for literacy intervention is at the core of understanding purpose, validity, and implementation of instructional intervention strategies. Additional purposes are to address differences among readers and texts and to understand methods of reading assessment for adolescents and the English Language Learner (ELL). The reading process, difficulties in reading and English language learning, instruction in reading beyond elementary education, and the role of the teacher in reading instruction and assessment will be important topics in this course.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5004 Topics in Education

An examination and appraisal of major educational issues, drawing on normative frameworks, empirical research, and analytical literature. Seminar format. Topics vary by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5007 Instructional Techniques for Art K-12

Instructional Techniques for Art K-12 will center on developing an understanding of how the integrative approach to arts education can be implemented in both the visual arts classroom, and also the subject area elementary, middle, and high school classrooms. Emphasis will be placed on the development of studio based visual art techniques across the K-12 curriculum and how these can be used to foster creativity, imagination, critical thinking skills, and individual solutions to a variety of visual and integration based problems. The philosophical bases for this course are the developing ideas that the arts are uniquely positioned to play an important role in helping all educators transform their teaching to address the needs of 21st century, K-12 learners. This progressive approach to arts education is based upon the framework that there are two separate but related roles for the arts in our schools. The first role for arts education is a

standards based, sequential, comprehensive exploration of the arts founded on performance, criticism, process, communication and connections. The first role often takes a cross curricular approach to arts learning, but stays mainly focused on the arts. The second role is for the arts to be placed at the center of a variety of arts integration approaches to teaching and curriculum design. These approaches include arts integration, project based learning, universal design for learning, and STEAM. Enrollment note: must be taken concurrently with L12 4000/6000 and L12 400A/6001 unless approved by the Director of Teacher Education.

Credit 3 units.

Typical periods offered: Fall

EDUC 5010 The American School

In this course we analyze the development of American schooling within the context of American social history. Our focus is on three general themes: the differing conceptions of schooling held by some American political, social, and cultural thinkers; the changing relationships among schools and other educational institutions such as the church and the family; and the policy issues and arguments that have shaped the development of schooling in America. We spend considerable time studying the history of schooling in relation to the enduring challenges and dilemmas of marginalized groups including but not limited to systemic racial inequalities, access to schooling and inequitable schooling experiences.

Credit 3 units. A&S IQ: HUM BU: BA, ETH, HUM EN: H

Typical periods offered: Fall, Spring, Summer

EDUC 5030 Gender and Education

An examination of educational experiences, practices, and institutions across multiple levels (PK-university) using gender as a critical lens. Key topics include common beliefs, practices, and expectations related to gender in educational spaces, as well as the intersections between gender and other identities that may influence educational experiences and outcomes. Readings are drawn from multiple disciplines, including sociology, history, psychology, and philosophy. Students should be prepared to analyze their own gendered educational experiences in the context of the scholarship explored in the course, while also listening respectfully and reflecting on the experiences shared by classmates.

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Spring

EDUC 5040 Educational Psychology

This is a course in psychological concepts relevant to education that is organized around four basic issues: (1) how humans think and learn; (2) how children, adolescents, and adults differ in their cognitive and moral development; (3) the sense in which motivation and intention explain why people act as they do; and (4) how such key human characteristics as intelligence, motivation, and academic achievement can be measured.

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

EDUC 5050 Education, Childhood, Adolescence, and Society

This course examines the social and developmental experiences of children and adolescents at the national and international level. Readings will focus on the development of children and adolescents from historical, sociological, psychological, and political perspectives. Students will examine how both internal and external forces impact the developmental stages of children and adolescents. Students will investigate the issues that impact children and adults such as poverty, war, media, schooling, and changes in family structure. Students will explore some of the issues surrounding the education of children such as the effects of high quality preschool on the lives

of children from low income families and the connection between poverty and educational achievement. Students will focus on the efficacy of the safety nets that are intended to address issues such as nutrition, health, violence, and abuse. Throughout the course, students will review and critique national and international public policy that is designed to address the needs of children and their families throughout the educational process.

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Fall, Spring, Summer

EDUC 5060 Sociolinguistics, Literacies, Schools, and Communities

Literacy learning and development within a thriving community require attention to the linguistic, cultural, and economic diversity of students. Within an era of state standardization and accountability, it is imperative to use a systems approach in education that unites homes, schools, and communities. Differentiating instruction to meet the needs of all students, including English language learners and other traditionally marginalized groups of students, is essential. This course will introduce students to sociocultural theories of literacy across settings. It will prepare students to analyze how race, ethnicity, class, gender, and language influence the development of literacy skills. We will develop a multifaceted view of literacy that is embedded within culture and that acknowledges the influences of social institutions and conditions. We will incorporate strategies for individual student needs based on students' backgrounds and prior experiences to deliver differentiated instruction and to teach students to set learning goals.

Credit 3 units. A&S IQ: HUM, SC BU: BA, HUM EN: H

Typical periods offered: Fall

EDUC 5110 Contemporary Issues in Education and Society

This course is designed to provide teachers and others interested in education and schooling with an opportunity to examine some of the pressing issues in American education that are current topics of sustained discussion and debate. The issues selected for analysis vary from year to year.

Credit 3 units.

EDUC 5120 Current Research in Literacy

This course will focus on current research in the field of literacy and language. This course focuses on research and theories in literacy and related fields; their potential to impact instruction, society, and further research. Literacy and language research at all levels of education including early literacy; critical literacy; new literacies; transnational literacies and pedagogies will be included. We will read and discuss empirical research in the domains of literacy and society, the nature of literacy acquisition, and literacy and schooling. Seminal research and theories in literacy and related fields such as psychology, sociology, literary criticism, linguistics, and semiotics, that have shaped current literacy research and instruction will be integrated throughout the course. Students read, discuss, and critique current research and consider the implications for theory, literacy instruction, and further research. Enrollment limited to doctoral students in Education or permission of instructor.

Credit 3 units.

EDUC 5200 Higher Education Administration for Social Justice & Equity: Achievable or Only Dreamable?

Higher education has long been the subject of much general public interest and discourse. Understanding the complexity of the system, its history, practices, and expertise will help define whether and how campuses can work toward social justice and equity. In this course, students will study the history, policies, and organizational decisions that underlie the current state of higher education in America. These perspectives and theories will be studied with an eye toward social justice and understanding possible changes that may lead toward

equity on American college campuses. Through engaged discussions around readings and case studies, students will tackle complex social questions, including: how our college campuses became so complex? Why pervasive social issues, such as system racism, sexism, and classism, continue to exist on our campuses? How and when technology and the SAT/ACT began to rule our lives in college? Perhaps even deeper, students will grapple with finding alternate, more socially just, and equitable alternatives to create more equity on our campuses.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Fall, Spring

EDUC 5210 Diversity, Equity, and Inclusion in Higher Education

This course uses multiple frameworks to explore issues of power and privilege with respect to diverse populations in higher education. Our understanding of diversity is always evolving and changing. Recognizing the fluidity and complexity of diversity, this course will critically discuss the intersectional dimensions of identity. We will explore the socio-historical, legal, political, racial, social identity and institutional contexts impacting equity and access in higher education. An examination of conceptual frameworks, self-reflection, and dialogue will be used to examine students' own biases and prejudices.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA EN: S

Typical periods offered: Fall

EDUC 5220 Race, Ethnicity, and Culture: Critical Qualitative Understandings of Urban Education

This course examines educational institutions as spaces where children are asked to comply to the norms, expectations, and values of the culture of power. We will study how forces -- such as de facto segregation, the disproportionate hyper-disciplining of students, punitive school climates, and the devaluing of certain forms of cultural and social capital -- can contribute to cycles of social reproduction among the marginalized. To address such challenges, this course introduces sociocultural theories and critical qualitative inquiry methods as mechanisms by which urban educational institutions can be positively transformed. Specifically, restorative practices, cogenerative dialogues, and participatory/co-researcher models are explored as methods that honor the voices of marginalized stakeholders and lead to catalytic, transformational impact. Leaving this course, students will have an understanding of the inequitable terrain of urban education institutions as well as a repertoire of theories and methods to assist with the conducting of critically grounded, culturally responsive, humane, and transformative research. In addition to lectures, readings, discussions, films, and actual classroom footage, students will conduct a school experience project to practice using the theories and methods introduced in this course.

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

EDUC 5230 Video Microanalysis: Methods and Tools

The purpose of this course is to explore video microanalysis as a methodological tool for studying and valuing unconscious aspects of culturally diverse settings. Utilizing social cultural theoretical lens, this type of analysis will reveal fleeting actions, subtle movements, peripheral events, and non-verbal communication that are not easily identified in real time viewing. Specifically we may look at facial expressions, direction of gaze, hand movements, body position, and use of material resources as micro techniques to expand our capacity to explore minute aspects and alternative interpretations of social interactions.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5240 Education and Public Policy in the United States

This course takes a triangulated approach to the field of public policy as it relates to education and social problems. First, the course emphasizes theories of public policy that frame the field of policy studies. Second, the course emphasizes the skills related to the exercise of policy analysis. Third, this course simulates the policymaking context through students' participation in mock congressional testimonies. Educational opportunity, achievement inequality, and social change will be the primary interests that link these course features.

Credit 3 units.

Typical periods offered: Spring

EDUC 5250 History of Higher Education in American Culture

This course will examine the historical and philosophical development of higher education from colonial to contemporary periods including the histories of minoritized individuals and campus types. Throughout the semester, we will learn how history continues to impact the way we run and organize our campuses today. This course concludes with an exploration of current social, political, and economic challenges in higher education and current public debates regarding contentious topics in higher education.

Credit 3 units. A&S IQ: HUM BU: BA, ETH, HUM EN: H

Typical periods offered: Fall, Spring

EDUC 5260 Neighborhoods, Schools, and Social Inequality

A major purpose of the course is to study the research and policy literature related to neighborhoods, schools and the corresponding opportunity structure in urban America. The course will be informed by theoretical models drawn from economics, political science, sociology, anthropology, education and law. A major focus is to gain greater understanding of the experiences and opportunity structure(s) of urban dwellers, in general, and urban youth, in particular. While major emphasis will be placed on data derived from the interface of urban environments and the corresponding institutions within them, the generational experiences of various ethnic groups will complement the course foci.

Credit 3 units. A&S IQ: SSC, SC BU: BA EN: S

Typical periods offered: Fall, Spring

EDUC 5280 History of Urban Schooling in the United States

More than ever, schooling in urban areas is researched, and it is at the center of debates for improving U.S. schooling. This course, which is framed by contemporary issues, focuses on the history of urban schooling and policy to deepen our understanding of the contemporary landscape. We will focus on particular cities and their school districts; these may include New York, Boston, Chicago, Detroit, St. Louis, Los Angeles, San Francisco, and Atlanta. In this course, students will develop a strong contextual understanding of the conditions of urban schooling; the history of urban school reform; and the debates over the purposes of urban schools, past and present.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

EDUC 5290 Education of Black Children and Youth

This course provides an overview of the education of Black children and youth in the United States. Covering both pre- and post-Brown eras, students in this course offers a deep examination of the research focused on Black education. The social, political, and historical contexts of education, as essential aspects of American and African-American culture and life, will be placed in the foreground of course inquiries.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5300 History Education in & Beyond the Classroom

Far from requiring students to merely memorize names and dates, the work of history education rests on a robust theoretical foundation that urges complex cognitive skills. This course is intended to help students form a strong grasp of major issues in history education, including its underlying conceptualization of knowledge and related disciplinary habits of mind, instructional methods aimed at handling controversy with sensitivity toward students' contemporary identities, and sociocultural forces that exert pressure on professional communities and curricula alike. While this course is of special interest to students with an interest in teaching history (whether in higher education, at the K-12 level, or at a museum or historic site), admission to the teacher education program is not a prerequisite for entry.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

EDUC 5310 Sociology of Higher Education

What we call higher education in the United States is a complex web of institutions - nearly 3,000 4-year colleges, 1,500 2-year colleges, and still more postsecondary institutions that grant a variety of credentials. It is a system through which tens of millions of students pass each year; over the last few decades, the importance of earning a postsecondary credential has increased markedly. As such, higher education is deserving of rigorous scrutiny and careful interrogation. But in studying higher education, we are in fact attending to a multitude of things - among other things, varied institutional types with different resources and different imperatives, experiences of accessing and navigating higher education that are widely divergent along axes of inequality, and institutional processes that play out on campus but have resonance beyond the university gates. In this course, which will be conducted as a discussion-based seminar, we will engage with texts examining the enterprise of higher education from varied vantage points, but always through a sociological lens. We'll discuss why and how higher education came to be so important and loom so large in contemporary life, the stark differences between different sectors of the higher education landscape, and how stratification occurs between and within institutions. We'll talk at length about how higher education is a microcosm of many of the inequalities we see in the broader society, looking at issues of race, class, gender, and politics on campus. By taking a sociological lens to studying higher education, we'll learn a language and facility for rooting discussion of issues in higher education in theoretical grounding and empirical evidence. In so doing, students will develop the capacity to more critically assess research and public discourses on higher education, as well as their own work and experiences in the sector.

Credit 3 units. A&S IQ: SSC, SC EN: S

Typical periods offered: Fall, Spring

EDUC 5315 Culture, Language, and the Education of Black Students

This course examines the communicative patterns of what is called variously African-American language, Pan-African linguistic systems, and Ebonics within the context of public school policy and practice. In addition to a review of the structural and pragmatic aspects of Black speech, the course highlights relationships between controversies within the linguistic community, contrasting views of speech within Black lay communities, public discourse, and educational policy. Students will also conduct a field-based research project in accord with their particular interests.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC EN: S

EDUC 5330 Complex Learning in Education

This course will focus on psychological research and theory pertaining to higher-order learning. Each week, we will delve into a different topic, such as memory, transfer of learning, analogical reasoning, conceptual change, metacognition, and problem solving. Prerequisite: Junior standing or L12 304.

Credit 3 units. A&S IQ: SSC, WI BU: BA EN: S

EDUC 5350 Psychological Science for Educational Innovation

This course will focus on how theory and research in psychological science and other related disciplines can inform teaching and learning in a variety of educative contexts. Each week, we will delve into research on a new set of issues that all revolve around a particular theme, such as pedagogical methods, motivation, student characteristics, assessment of learning, evaluation of teaching effectiveness, and educational technology. In addition to analyzing theory and research, we will discuss implications for educational practice and policy with an emphasis on designing interventions and fostering innovation.

Credit 3 units. BU: BA EN: S

Typical periods offered: Fall, Spring

EDUC 5430 Sociology of Education

There are few institutions that nearly all Americans pass through, and schools are one of them; around fifty million students are enrolled in preK-12 schooling in the United States. As such, schools are an institution deserving of rigorous scrutiny and careful interrogation. But in studying K-12 schools, we are in fact attending to a multitude of things - competing visions of and purposes for schools, and disparate experiences of accessing and navigating education that are widely divergent along axes of inequality. In this course, which will be conducted as a discussion-based seminar, we will engage with texts examining the enterprise of education from varied vantage points, but always through a sociological lens. We'll discuss the varied purposes theorists and practitioners envision for schools, and the extent to which schools live up to those ideals. We'll talk at length about how schools are a microcosm of many of the inequalities we see in the broader society, looking at issues of race, class, gender, and place. By taking a sociological lens to studying education, we'll learn a language and facility for rooting discussion of issues in education in theoretical grounding and empirical evidence. In so doing, students will develop the capacity to more critically assess scholarly research and public discourses on education, as well as their own experiences.

Credit 3 units. A&S IQ: SSC, SC BU: BA, ETH EN: S

Typical periods offered: Fall, Spring

EDUC 5440 Philosophies of Education

An analysis of perennial themes in the philosophy of education, with particular attention to implications arising from the uneven distribution of power in an inequitable society. Significant questions to be examined include: What constitutes a truly democratic form of education? How might our answers change when we approach this question in light of the history of race in the American experience? How should teachers dedicated to a liberatory practice approach both their content and their students? Which theories of knowledge might help us envision new possibilities for teaching and learning? Readings will address both K-12 and higher education spaces while drawing on a diverse range of historical and contemporary thinkers. Seminar format.

Credit 3 units. A&S IQ: HUM BU: ETH, HUM EN: H

Typical periods offered: Fall, Spring

EDUC 5450 History of Education in the United States

Examines education within the context of American social and intellectual history. Using a broad conception of education in the United States and a variety of readings in American culture and social history, the course focuses on such themes as the variety of institutions involved with education, including family, church, community, work place, and cultural agency; the ways relationships among those institutions have changed over time; the means individuals have used to acquire an education; and the values, ideas, and practices that have shaped American educational policy in different periods of our history.

Credit 3 units. A&S IQ: HUM, SC BU: BA, HUM EN: H

Typical periods offered: Fall

EDUC 5460 Politics of Education

In this course, politics is interpreted broadly to include both formal policy-making processes and any situation in which people have to solve a problem or come to a decision. The purpose of this course is to explore the following processes: (1) how ideologies and power dynamics influence educational policies and decisions; (2) how educational policies and decisions translate into specific school programs and practices; (3) how specific programs and practices influence pedagogies, especially in the relationships among students, teachers, and knowledge pedagogies; (4) how these pedagogies impact student opportunities and outcomes; and (5) how student outcomes and opportunities reinforce ideologies and power dynamics. This course considers politics across time, space, and individuals, noting how historical, geographical, cultural, social, psychological, political, and economic contexts can shape the politics of education. In addition, as this course considers the relationship between politics and power, we explore how politics can manifest itself in ways that promote exclusion and subjugation or work toward the common good. Finally, after carefully examining the research on inequalities and inefficiencies resulting from the current politics of education, we will transition from problem identification (i.e., What went wrong?) to problem solution (i.e., Where do we go from here?).

Credit 3 units. A&S IQ: SSC, SC EN: S

Typical periods offered: Fall, Spring

EDUC 5470 The Political Economy of Urban Education

Defining a political economy of urban education involves the examination of power and wealth and the manner in which they operate in urban settings. It requires analysis of the larger urban social and economic context and consideration of historical forces that have brought the schools to their present state. In this course, we consider various political and economic factors that have influenced and shaped urban education in the United States, drawing upon the extant literature on urban education and related social science disciplines to characterize and discuss them. A particular focus of this course will be on the dynamic interrelationships among the political economy, urban education, and social stratification.

Credit 3 units. A&S IQ: SSC, SC EN: S

Typical periods offered: Fall, Spring

EDUC 5510 Academic and Student Affairs: An Essential Partnership

This course focuses on the intersection of academic and student affairs in the higher-education setting. While students view all aspects of their college experience, institutions are formally or informally divided between academic and student affairs, and they are also subdivided within these classifications. This course will explore necessary conditions, optimal ways, and best practices for creating robust partnerships between academic and student affairs to achieve institutional goals and to appear seamless to our students.

Credit 3 units.

Typical periods offered: Spring

EDUC 5512 Race, Ethnicity, and Culture: Qualitative Inquiries Into Urban Education II

This course is the second of two to examine ethnographic research at the intersecting and overlapping points of race, ethnicity, class, gender, and culture. The emphasis in this course is on developing methodology that is consistent with critically grounded, socially responsible, culturally-responsive, and humane research projects and programs.

Credit 3 units. A&S IQ: SSC, WI Art: SSC EN: S

Typical periods offered: Spring

EDUC 5520 Assessment and Evaluation in Higher Education

The purpose of this course is to provide an overview of the scholarship and practice of assessment within the context of higher education.

This course examines the various approaches for curricular, co-curricular, and institutional assessment in higher education.

Credit 3 units.

Typical periods offered: Fall

EDUC 5530 Leadership in Student Affairs

This course provides an overview of the field of student affairs; its related functional areas; role in higher education in the United States; and current issues faced by practitioners. In the context of this course student affairs is defined as those programs, services, and activities designed to recruit, retain, support, and develop students in college. This course concentrates on the leadership roles within student affairs in higher education institutions across the United States. Leaders in student affairs are regularly challenged to respond to the current and emerging needs of students, as well as to expectations from various stakeholders: faculty, boards of trustees, alumni, community members, and the government, as to the priorities for the student experience in higher education. Successful student affairs leadership requires the ability to understand the context of student affairs work including how and why student affairs emerged as an organizational entity within higher education; the critical issues faced by student affairs practitioners; and the various administrative functional areas that typically exist within the portfolio defined as student affairs on a college campus. This course is designed to provide students with an overview of student affairs as an entity from both an historical and contemporary lens; introduce students to the literature in the field and examine various theoretical frameworks related to the student experience in higher education; strengthen understanding of the standards that guide student affairs practice; and explore leadership theories and practices to apply to the review of the critical student affairs issues and strengthen student understanding of their own leadership styles in preparation for possible careers in higher education.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

EDUC 5540 Mental Health in Higher Education

Within the first decade of the 21st century, enrollment at American colleges and universities increased a whopping 24%, from 16.6 million in 2002 to 20.6 million in 2012. Just as college enrollments have dramatically increased, so too have the proportion of students suffering from mental illness. Some have deemed that we are in the midst of a college student mental health crisis. From all directions, data are emerging, and they depict a sobering scene. How can the field of higher education best respond to this crisis? Many institutions have increased the number of mental health counselors available in the student health center and made the accommodations offered by disability resource centers more robust. Still, the same survey from the National Alliance on Mental Illness found that only half of students with mental health diagnoses disclose their conditions

to their colleges. This course will delve into the extant literature on the nature of mental health problems facing students today. We will discuss how professionals in the field can best respond to address such problems as they arise and, to the extent possible, prevent them in the first place.

Credit 3 units.

Typical periods offered: Fall

EDUC 5550 College Student Development

This course is designed to provide students with an understanding of current theories, concepts, and research on the development of college students (predominately traditionally aged students 18-25). Specifically, attention to college student development in context will be examined via theoretical, popular, and research-based readings, and other media. The course also affords students the opportunity to apply college student development theory to real life situations, and understand the role of student development theory in higher education practice. The class will include lectures, discussion, in-class exercises, and some audiovisual material.

Credit 3 units.

Typical periods offered: Spring

EDUC 5560 Management of University Finances

This class will deal with all issues associated with financing higher education, including US trends and some comparison with international institutions. Topics covered will be sources of revenue and expenses associated with colleges and universities, and will include consideration of public support and private support. Revenue sources include tuition, fees, room and board, gifts, research grants and contracts, spendable income from endowment. Major expenses include employee compensation and benefits; operation of physical facilities, and expenses associated with academic programs and research. Other financial topics will be covered, including risk, internal controls, and debt. Coursework will include reading assignments, discussion, a midterm and a final examination.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5580 Mentored Experience in Higher Education

The Mentored Experience in Higher Education (MEHE) is designed to be an opportunity for doctoral students to apply the knowledge acquired during their coursework in the Graduate Certificate Program in Higher Education (GCPHE) toward an administrative and/or research experience in a particular area of higher education. MEHEs connect doctoral students with mentors in academic departments or administrative offices at Washington University or, by arrangement, an external institution. The doctoral student and mentor(s) collaboratively develop a plan for the MEHE and then present it to the GCPHE Advisor for approval. An MEHE must consist of 140 hours total over the course of a single semester of an academic year. Doctoral students may only engage in one MEHE per semester and they cannot be paid by the unit in which they are completing the MEHE. The MEHE should be the fourth and final course completed for the certificate, but exceptions may be made in special circumstances.

Credit 3 units.

Typical periods offered: Fall

EDUC 5600 Foundations of Educational Research

Educational researchers in today's world use an interdisciplinary toolbox of approaches to examine the complex issues facing today's students, teachers, educating institutions, and communities. Providing an introduction to the basic concepts, philosophies, and kinds of methodologies used in educational research, this course will examine research designs such as experiments, surveys, mixed methods, ethnography, and action research. Students will be required to analyze

the strengths, weaknesses, and limitations of each. Furthermore, the course is devoted to understanding the importance of identifying a research problem, the literature review, research questions, and the alignment with appropriate methodologies (quantitative, qualitative, or mixed methods) in responding to the research inquiry.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

EDUC 5610 Research in Education

This course allows students to complete research in education.

Credit 6 units.

Typical periods offered: Fall, Spring

EDUC 5619 Educational Statistics I

This course designed to provide students with foundational training in quantitative statistical methods. The course provides an introduction to basic statistical concepts and analyses using R packages. Some of the concepts covered include: descriptive statistics, correlation, regression, ANOVA, effect size, research design, validity, reliability, and nonparametric statistics. Students will apply these concepts by analyzing actual data with R. Overall, students will acquire sophisticated understandings of quantitative research design as a framework for processing data using statistical software. Prerequisites: completion of EDUC 403/503 OR permission of instructor.

Credit 3 units.

Typical periods offered: Fall

EDUC 5620 Principles and Methods of Qualitative Research I

In this course, we examine qualitative research by considering various qualitative methodologies as well as qualitative research design. Discussion and readings will focus on the place of qualitative methods in educational research, the epistemological foundations within qualitative methods, the role of theory in qualitative research, methods for responsibly collecting qualitative research, systematic analysis and management of data, and representation of findings. Throughout the course, we pay close attention to our positionality and its impact on qualitative research. Furthermore, we will discuss the ethical issues involved in problem posing and solving inherent in conducting research.

Credit 3 units.

Typical periods offered: Spring

EDUC 5630 Directed Studies in Qualitative Research

This is part of a sequence of graduate-level qualitative research courses. This course involves working closely with an education professor to collect and analyze data. This course may also involve designing an independent study as part of the professor's ongoing research program or as a project that is initiated by the student. Permission of instructor required. Enrollment limited to Education doctoral students.

Credit 3 units.

Typical periods offered: Fall

EDUC 5640 Seminar in Qualitative Research

Examines qualitative research as both a body of work and a set of inquiry strategies. Topics include strengths and limitations of qualitative research, conceptual foundation, research design, data collection and analysis, ethical issues. Educational settings are emphasized, but students/researchers of other disciplines and settings are encouraged to enroll.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5800 Master's Project

The master's project is an opportunity to integrate knowledge and skills acquired through coursework and other experiences in the graduate program. Working independently under the supervision of a faculty member, the student designs and conducts a research study, and then writes it up in the form of a thesis. The project and resulting thesis should demonstrate graduate-level methodological competence in inquiry and analysis along with theoretical and empirical expertise in an area of concentration. This course should be taken in the final semester in which the thesis is submitted and defended.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5900 Graduate Internship in Education

The Graduate Internship in Higher Education is designed to provide graduate students with an opportunity to apply the knowledge acquired during their coursework in the graduate degree program toward an administrative, professional, and/or research experience in a particular area of higher education. Students will receive 3 units of credit for an approved, campus-based, sponsored internship consisting of a minimum of 140 contact hours that relates to their program of study. Specific requirements are set for individual students by the faculty supervisor in consultation with the graduate internship supervisor in the organization where the internship work is completed. Such requirements may include the completion of a certain number of hours, a research paper about the student's experience, and/or informational meetings with other faculty about the student's internship experience. Students should complete a learning agreement provided by the department. The graduate internship should be completed in the final semester of the degree program. Exceptions may be made in special circumstances. Open to graduate students in the Department of Education only; register for the section assigned to the faculty supervisor

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 5910 Practicum in Teaching Literacy

This is a practicum in teaching literacy at the college level, focusing on understanding teaching and learning in school settings. This practicum experience is structured as an apprenticeship in college teaching with experiences such as development of syllabi, preparation of lectures/workshops, construction and assessment of assignments, as well as readings and discussions in research in the field of teacher education. The doctoral student will work directly with a faculty member. Enrollment limited to Education doctoral students.

Credit 3 units.

Typical periods offered: Fall

EDUC 5999 Independent Work

Independent Work in Education

Credit 6 units.

Typical periods offered: Fall, Spring, Summer

EDUC 6005 Educational Psychology: A Focus On Teaching and Learning in School Settings

How should research in educational psychology inform teaching in contemporary schools - and how might the lived experience of professional educators in turn inform research in educational psychology? This class uses the reciprocal relationship between educational theory and practice to examine key issues in teaching and learning in contemporary school settings. Throughout, students will gain greater familiarity with topics influencing the pedagogical decision-making of teachers, from everyday topics (e.g. differentiation, classroom management, developmental appropriateness, etc.) to topics gaining ground in contemporary education (e.g. culturally

responsive pedagogy, trauma-informed pedagogy, poverty-informed pedagogy, etc.). By engaging with substantive texts representing diverse perspectives, students will become more comfortable navigating scholarly research on teaching and learning in school settings, including distinguishing between multiple forms of scholarship (e.g. qualitative and quantitative studies, action research, self-study, portraiture, etc.) and other forms of writing about education (e.g. memoirs, advice based on personal experience, op-eds by thought leaders, etc.). Students will also theorize about reasons for gaps between educational research and practice by drawing on their knowledge of the sociocultural, political, and historical contexts of schooling. Ultimately, students will become more able to articulate their reasoned perspectives as emerging professionals regarding best practices for meaningful teaching and learning in school settings.

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Fall, Spring

EDUC 6006 Early Field Experience

This course offers students an informed look at schooling in America and is designed for current teachers, prospective teachers (those considering a Teacher Education major), and for those simply interested in furthering their understanding of classroom interaction and the fundamental principles of teaching and learning. Students will be able to plan lessons and activities that address student's prior experiences, multiple intelligences, strengths, and needs to positively impact learning. This course provides direct and indirect experiences with contemporary K-12 educational practice in schools through 30 clock hours of field observation to be completed during the semester. Students will observe the daily life of teachers and their interactions with children and adolescents, with the dual goal of understanding the professional nature of the setting (i.e. pedagogical decision-making processes, expectations and requirements for teachers, institutional functioning, etc.) and being an active participant in a K12 classroom setting. Assignments will include, but are not limited to, observation notes, discussions with class members, and evaluation and design of instructional strategies and learning activities. Prerequisite: Completion of any 1000, 2000, or 3000-level Education course, graduate standing, or permission of instructor.

Credit 1 unit. A&S IQ: SSC EN: S

Typical periods offered: Fall, Spring

EDUC 6008 Education and Psychology of Exceptional Children

Learning, psychological, cognitive and social characteristics of exceptional children and youth from gifted to those with disabilities. Study child and adolescent developmental stages and the application to educational settings through data-based decision making using assessment and student data in a critical thinking, problem solving team approach. Current practices of educational strategies, interventions, and modifications to differentiate instruction for individual learning needs are emphasized. Plan lessons and activities that address student's prior experiences, multiple intelligences, strengths, and needs to positively impact learning. Learn specific strategies for classroom management, consultation and collaboration with families, colleagues, and administrators to meet individual needs within a culturally and demographically diverse classroom. Influences of legislation, criteria used to identify children, and awareness of supportive services are explored.

Credit 3 units. A&S IQ: SSC BU: BA EN: S

Typical periods offered: Fall, Spring, Summer

EDUC 6010 Curriculum and Instruction for Secondary Teachers

This course provides an in-depth look at secondary curricula and instructional practices in order to equip teacher candidates across a spectrum of disciplines with the knowledge and skill needed to implement meaningful teaching and learning in their future classrooms. By drawing from educational research in curriculum

studies and related fields, students will examine the foundations of their discipline's curriculum, consider avenues for the implementation of culturally responsive pedagogy, and gain strategies for engaging contemporary issues facing secondary teachers (e.g. controversy, burnout). A strong emphasis will be placed on connecting with colleagues in different disciplines and exploring the possibilities for interdisciplinary instruction.

Credit 2 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

EDUC 6020 Curriculum and Instruction in Art K-12

This course provides hands-on practice for K-12 teacher candidates in art curriculum regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students.

Credit 2 units.

Typical periods offered: Fall

EDUC 6030 Curriculum and Instruction in Dance K-12

This course provides hands-on practice for K-12 teacher candidates in dance curriculum regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students. Enrollment note: must be taken concurrently with L12 4000/6000 unless approved by the Director of Teacher Education. Undergraduate students must enroll in Educ. 400D, while graduate students must enroll in Educ. 600D.

Credit 2 units.

Typical periods offered: Fall

EDUC 6040 Curriculum and Instruction in Secondary English

This course provides hands-on practice for secondary teacher candidates in English curriculum regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students.

Credit 2 units.

Typical periods offered: Fall

EDUC 6050 Curriculum and Instruction in World Languages K-12

This course provides hands-on practice for K-12 teacher candidates in world language curriculum, including French, German, Japanese, Latin, Mandarin Chinese, Russian, and/or Spanish, regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students.

Credit 2 units.

Typical periods offered: Fall

EDUC 6060 Curriculum and Instruction in Secondary Mathematics

This course provides hands-on practice for secondary teacher candidates in mathematics curriculum regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students.

Credit 2 units.

Typical periods offered: Fall

EDUC 6070 Curriculum and Instruction in Secondary Science

This course provides hands-on practice for secondary teacher candidates in science curriculum regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students.

Credit 2 units.

Typical periods offered: Fall

EDUC 6080 Curriculum and Instruction in Secondary Social Science

This course provides hands-on practice for secondary teacher candidates in social science curriculum regarding discipline-specific techniques for instruction and assessment. Students will read discipline-specific research on evidence-based practice, learn how to align lessons with curriculum standards, and gain experience via lesson planning and facilitating learning activities for fellow students.

Credit 2 units.

Typical periods offered: Spring

EDUC 6090 Teaching Writing in School Contexts

Writing teachers often know how to write well but less about the teaching of writing. To provide effective instruction in writing, teachers need, first of all, experiences with writing instruction and theoretical knowledge to guide classroom practices. The goals of this course are as follows: to provide opportunities for all teachers of English and language arts, to develop theoretical knowledge and skill as teachers of writing, to connect the practices of research and teaching, to encourage teachers to give their students multiple and varied experiences with writing, to assist teachers in learning to respond to students' writing and assess their progress as writers. Offered Fall semester.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Spring

EDUC 6100 Elementary School Mathematics

This course introduces fundamental concepts, properties, operations, and applications of mathematics related to the systems of whole numbers, integers, rational numbers, and real numbers. Also included are measurement, simple geometry, probability, and logical reasoning. The course is designed to help students develop effective teaching strategies and approaches to curriculum development in mathematics. It addresses components of effective curriculum that are aligned with learning experiences and outcomes using the academic language of mathematics. It incorporates strategies for individual student needs based on diverse backgrounds, prior experiences, and language to deliver differentiated instruction, and it teaches students to set learning goals. Students will develop strategies to engage their students in methods of inquiry and research, with interdisciplinary approaches where appropriate. They will learn research-based models of critical thinking and problem-solving, including various instructional strategies and technologies to support student engagement in higher-level thinking skills. Students will use formal and informal assessments to design instruction and improve learning activities, and these will be followed by assessment analysis to determine the effect of class instruction on individual and whole-class learning. They will understand strategies to communicate confidential student data and progress in accordance with ethical and legal protocols.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

EDUC 6110 Elementary Science: Content, Curriculum, and Instruction

This course focuses on key concepts appropriate for elementary school science and health instruction. A repertoire of effective teaching strategies and approaches to curriculum development are presented. Prerequisite: Admission to the teacher education program or permission of instructor. Offered spring semester.

Credit 2 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

EDUC 6120 Elementary Social Studies: Content, Curriculum, and Instruction

Introduction to key concepts in social studies, including economics and geography. Repertoire of effective teaching strategies and approaches to curriculum development in all areas of social studies.

Credit 2 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

EDUC 6130 The Arts and Aesthetics: A Means of Communication

Methods and materials for integrating the arts and aesthetics into the elementary classroom are discussed. Emphasis is on art, music, and oral communication as well as curricula in movement.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: CPSC, HUM BU: HUM EN: H

Typical periods offered: Spring

EDUC 6140 Language, Learning, and Instruction

This course, which emphasizes children's writing and literacy issues, is the second of three courses in a sequence on teaching reading and writing. The course reviews and elaborates on work from previous courses on children's acquisition of written language; examines approaches to teaching writing; and focuses on work from sociological, feminist, and philosophical perspectives to affirm and criticize aspects of these approaches.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

EDUC 6150 Teaching Reading in the Elementary School

This course, emphasizing emergent literacy and children's literature, is the first in a sequence of three courses on teaching reading and writing. The purposes of this course are to survey children's acquisition of oral and written language from an emergent literacy perspective, to focus on methods of teaching beginning reading, to develop uses of children's literature in a reading program.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

EDUC 6160 Mathematics for Elementary School Teachers

A review of mathematics for grades K-8, at a level beyond its usual presentation in the schools. The purpose of this course is to ensure that teachers have the necessary foundation to teach mathematical concepts and problem solving at the elementary level. Applications of all essential mathematical concepts are presented in abundance, along with methods and strategies for instruction at the elementary level. Restricted to elementary education students, except with approval of the Director of Teacher Education.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

EDUC 6570 Middle School Philosophy and Organization

This course examines the history, goals, organization and philosophy of middle schools as institutions. Students will explore how the characteristics and needs of early adolescents guide the mission, structure and operation of middle schools.

Credit 2 units. A&S IQ: SSC

Typical periods offered: Fall, Summer

EDUC 6571 Middle School Curriculum and Instruction

By building on knowledge of the middle-level child and the ways in which middle schools are organized to meet the needs of middle-level children (covered in Educ 4951), this course explores the learning styles and attributes of middle-school students and examines instructional theory, methods, and materials appropriate to grades 5 through 9. In addition, portions of this course will be devoted to specific content field methodology and subdivided into English/language arts and social studies or science and math. The English/social studies and science/math sessions will be held concurrently, and students will attend the session appropriate to their content majors or minors. Interdisciplinary team teaching will be modeled and featured in these sessions. This course features a required practicum experience.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Fall, Summer

EDUC 6580 Elementary Methods Field Experience

This course involves the application and analysis of specific content area methods and strategies in an elementary school classroom.

Credit 2 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

EDUC 6590 Field Experience Seminar

This course guides students through a field experience in a middle or secondary public school. Fifty hours of observation are required for each student; these hours involve observing and documenting classroom environment characteristics, professional teacher behaviors, and student behaviors; working with students individually and/or in small groups; preparing and teaching a lesson; and learning classroom technologies such as SMART Board and digital video recording and editing. Course topics, observation, and discussion include understanding diverse cultural perspectives of English language learners and how to select appropriate strategies for addressing individual needs in meeting curriculum objectives; incorporating strategies for individual student needs based on diverse backgrounds and prior experiences to deliver differentiated instruction; creating a positive learning environment through effective classroom management using strategies based on research and pedagogically sound techniques; developing reflective practices to improve teaching while understanding the importance of utilizing professional learning opportunities in school districts and professional organizations; and understanding the importance of communication, professional relationships, and collaboration with teachers, administrators, families, and the community as well as the nature of professional, ethical, and legal behavior and the need to adhere to district policies and school procedures.

Credit 3 units. A&S IQ: SSC EN: S

Typical periods offered: Fall, Spring

EDUC 6800 The Teaching-Learning Process in Elementary School

This course focuses on four broad areas: (1) self-awareness and human relations; (2) instructional and behavioral management strategies; (3) the development of curriculum and the analysis of instruction; and (4) social, political, and legal issues affecting the classroom. Topics include teacher-pupil relationships, assessment of pupil progress, curriculum development, instructional technology, and school organization.

Course discussion and study further develop knowledge in a variety of areas that are experienced during student teaching, such as the refinement of pedagogy strategies and skills; the Missouri Educator Evaluation System (MEES) for certification; understanding diverse cultural perspectives of English language learners and how to select appropriate strategies for addressing individual needs in meeting curriculum objectives; incorporating strategies for individual student needs based on diverse backgrounds and prior experiences to deliver differentiated instruction; creating a positive learning environment through effective classroom management using strategies based on research and pedagogically sound techniques; developing reflective practices to improve teaching while understanding the importance of utilizing professional learning opportunities in school districts and professional organizations; understanding the importance of communication, professional relationships, and collaboration with teachers, administrators, families, and the community; and understanding the nature of professional, ethical behavior and the need to adhere to district policies and school procedures.

Credit 3 units. A&S IQ: SSC, WI EN: S

Typical periods offered: Fall, Spring

EDUC 6810 The Teaching-Learning Process in the Secondary School

Secondary teacher education majors are required to take this teacher-learning course during the spring semester in which student teaching is completed. The course focuses on the study, practice, and analysis of generic teaching strategies and skills needed to meet the needs of all students. Topics include classroom management, lesson planning, instructional and ethical decision making, and strategies for presenting clear explanations, asking effective questions, conducting productive discussions, reaching students with different learning styles/abilities/cultural backgrounds, and using cooperative learning groups.

Credit 3 units. A&S IQ: SSC, WI Art: SSC EN: S

Typical periods offered: Spring

EDUC 6900 Student Teaching in the Elementary School

This course encompasses a supervised teaching experience as well as group meetings and individual conferences. Emphasis is on the integration of theory/practice and reflections on teaching.

Credit 8 units. A&S IQ: SSC EN: S

Typical periods offered: Fall

EDUC 6910 Student Teaching in the Secondary School

Supervised teaching experience. Group meetings and individual conferences. Emphasis on integration of theory/ practice and reflection on teaching through videotape analysis.

Credit 8 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

EDUC 6920 Student Teaching in Middle Schools

Supervised teaching experience. Group meetings and individual conferences. Prerequisite :admission to teacher education program. Enrollment Notes: Graduate students must register for Satisfactory/Unsatisfactory and Undergraduates must register for Pass/Fail. Middle school teacher education students enroll for 8 credits. Offered Spring semester. Undergraduate students must enroll in Educ. 4922, and graduate students must enroll in Educ. 6922.

Credit 8 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

EDUC 6930 Student Teaching in Grades K-12

This course encompasses a supervised teaching experience as well as group meetings and individual conferences.

Credit 8 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

EDUC 6950 Seminar

The doctoral seminar encourages an interdisciplinary perspective on a theme central to the theory and practice of education. The theme for the seminar changes every year, as do the faculty participating in the seminar.

Credit 3 units.

Typical periods offered: Fall, Spring

EDUC 6960 Doctoral Seminar

The doctoral seminar encourages an interdisciplinary perspective on a theme central to the theory and practice of education. The theme for the seminar changes every year, as do the faculty participating in the seminar.

Credit 3 units.

Typical periods offered: Fall

EDUC 7010 Master's Continuing Student Status

Master's Continuing Student Status

Credit 0 units.

EDUC 7020 Master's Nonresident

Master's Nonresident

Credit 0 units.

Typical periods offered: Fall

EDUC 7030 Master's Resident

Master's Resident

Credit 0 units.

EDUC 8000 Doctoral Continuing Student Status

Doctoral Continuing Student Status

Credit 0 units.

Typical periods offered: Summer

EDUC 8010 Doctoral Nonresident

Doctoral Nonresident

Credit 0 units.

Typical periods offered: Fall, Spring

EDUC 8020 Doctoral Resident

Doctoral Resident

Credit 0 units.

Typical periods offered: Fall, Spring

Education, MAEd/ MSW Dual Degree

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 37 units for the MAEd; 88 units total for both degrees. (**Note:** The MAEd is not available as a standalone degree and must be completed within the 3-year dual degree program with the Brown School.)
- **Degree Length:** Three semesters for the MAEd + three semesters for the MSW plus the completion of required MSW practicum hours each summer during the program.
- **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

Required Courses

Year 1

Year 1 of the program is completed at the Brown School, where students enroll in 30 credits of social work foundations and concentration courses. Students will complete the MSW practicum during the summer semester.

Year 2 Fall

The fall semester of Year 2 consists of the following course options for a total of 13 credits:

Social Context of Education (3 credits)

One of the following or an elective is required for 3 credits (dual credit toward the MSW):

- EDUC 5010 The American School
- EDUC 5050 Education, Childhood, Adolescence, and Society
- EDUC 5060 Sociolinguistics, Literacies, Schools, and Communities

Discipline-Based Study (3 credits)

One of the following is required for 3 credits:

- EDUC 5430 Sociology of Education
- EDUC 5440 Philosophies of Education
- EDUC 5450 History of Education in the United States
- EDUC 5460 Politics of Education
- EDUC 5470 The Political Economy of Urban Education

Individual Processes of Education (4 credits)

Both of the following are required for 4 credits:

- EDUC 6005 Educational Psychology: A Focus On Teaching and Learning in School Settings (3 credits; dual credit toward the MSW)
- EDUC 6006 Early Field Experience (1 credit)

Elective (3 credits)

Choose one elective from any category in Educational Studies or any 5000-/6000-level course in education for 3 credits.

Year 2 Spring

The spring semester of Year 2 includes the following course options for a total of 15 credits:

Social Context of Education (3 credits)

One of the following or an elective is required for 3 credits (dual credit toward the MSW):

- EDUC 5010 The American School
- EDUC 5050 Education, Childhood, Adolescence, and Society

Discipline-Based Study (3 credits)

One of the following is required for 3 credits:

- EDUC 5430 Sociology of Education
- EDUC 5440 Philosophies of Education
- EDUC 5450 History of Education in the United States
- EDUC 5460 Politics of Education
- EDUC 5470 The Political Economy of Urban Education

Individual Processes of Education (3 credits)

The following course is required for 3 credits:

- EDUC 6008 Education and Psychology of Exceptional Children (3 credits)

Electives (6 credits)

Choose two electives from any category in Educational Studies or Higher Education (5000-/6000-level courses in Education) for 6 credits.

Year 3 Fall

The fall semester of Year 3, which is the final semester of the MAEd degree program, includes the following coursework for a total of 9 credits in Education plus 3 practicum credits in Social Work:

Internship (3 credits)

- EDUC 5900 Graduate Internship in Education

Discipline-Based Study (3 credits)

One of the following is required for 3 credits:

- EDUC 5430 Sociology of Education
- EDUC 5440 Philosophies of Education
- EDUC 5450 History of Education in the United States
- EDUC 5460 Politics of Education
- EDUC 5470 The Political Economy of Urban Education

Elective (3 credits)

Students choose one 5000-/6000-level elective from any category in Educational Studies or Higher Education for 3 credits.

MSW Concentration Practicum (3 credits)

Placement should occur in the same location as the Internship listed above. If the internship site for the MAEd is also an approved school-related site for the MSW, hours may count toward both programs. Due to hours being double-counted, students will enroll in both the MAEd internship course number and the MSW practicum course number.

Note: Hours worked per credit hour differ between the two programs. Students should consult with their advisors.

Year 3 Spring

The spring semester of Year 3 consists of 14 credits completed at the Brown School with an option to continue practicum hours into the following summer while enrolling in the 3-credit Management and Leadership of Organizations course, if necessary.

Contact: Alyssa McDonald
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Education, PhD

Contact: Alyssa McDonald
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Email: alyssa.mcdonald@wustl.edu
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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 24-30
- **Degree Length:** 6 years
 - Students are expected to have completed all PhD requirements, except for the dissertation, no later than the end of the fourth year of full-time graduate study.
 - By the third year, students should be completing their courses and submitting a qualifying portfolio of written work.
 - By the fourth year, students should have a dissertation proposal approved before they continue with the bulk of their research and writing for the dissertation.
 - Typically, the dissertation is completed and defended by the end of the fifth or sixth year of study.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
 - **Grade Requirement:** Students must achieve a grade of C or better for courses to count toward the degree. Students are expected to maintain a cumulative grade point average of at least a 3.0 on a 4.0 scale in courses that count toward their requirements. Thus, among courses of equal weight, each grade of C must be balanced by at least one A.

Required Courses

General Education Courses (9 credits)

- Students are required to take 6 credits (3 credits per semester) of EDUC 6960 Doctoral Seminar. This seminar is offered every fall semester, and it is required of all doctoral students in their first two years.

- EDUC 5450 History of Education in the United States (3 credits) is required in the first or second year of study. Alternate graduate courses in the history of education may be substituted, as approved by the Doctoral Studies Committee.

Methodology Courses (12-15 credits)

- EDUC 5600 Foundations of Educational Research (3 credits): Students who enter the program with little to no methodological training relevant to the field of Education are required to take this course, which is an introduction to the various methodologies used in the field of Education. Students who enter the program with prior introductory level methodological training relevant to the field of Education can petition to waive this course requirement with approval of the student's advisor and the Director of Graduate Studies.
- Students concentrating in quantitative methodology are required to take a minimum of one core qualitative and three core quantitative courses (12 total credits at minimum).
- Students concentrating in qualitative methodology are required to take a minimum of one core quantitative and three core qualitative courses (12 total credits at minimum).

Area of Focus Courses (3-6 credits)

- In addition to the general education requirements and the appropriate methodology requirements, students select one of two areas of focus for study: Educational Policy Studies or Educational Psychology and complete related coursework. Coursework will be based on the needs of the student and determined by consultation between the student and the advisor.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

The status of candidacy for Department of Education doctoral students indicates a student has completed all required coursework, successfully submitted and received approval of their Doctoral Qualifying Portfolio from the Department of Education Doctoral Studies Committee, received approval of their Research Advisory Committee from the Office of Graduate Studies, successfully completed their oral presentation to propose the dissertation to their Research Advisory Committee, and submitted the Title, Scope, and Procedure form to the Office of Graduate Studies. Students typically enter candidacy by the end of the fall semester of their fourth year.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome

to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

The MA in Education program provides an optional along-the-way master's program for students enrolled in the Department of Education's PhD program. The program requirements consist of coursework and the completion of a master's thesis. The coursework has substantial overlap with the requirements for the doctoral degree to avoid adding time to degree. The MA in Education is optional for PhD students but strongly recommended for those students with no master's degree or a master's degree in a field outside of education. This program also offers an alternative degree path for students who decide to leave or are asked to leave the PhD program before completing it. Doctoral students in the Department of Education will

be able to opt into the master's degree along the way program at any point up until they complete or exit the doctoral program. However, students are encouraged to complete the requirements before the end of their second year in the PhD program.

Program Requirements

- **Total Units Required:** 30 units

The program requirements include coursework and a master's thesis:

Coursework

The required coursework for the master's degree will be based on the requirements for the doctoral degree. Students are required to complete the following courses:

- EDUC 6960 Doctoral Seminar (6 credits total; 3 per semester for two semesters)
- EDUC 5450 History of Education in the United States (3 credits)
- Four methodology courses (12 credits total; 3 credits per course): Students concentrating in quantitative methodology are required to take a minimum of one qualitative and three quantitative courses whereas students concentrating in qualitative methodology are required to take a minimum of one quantitative and three qualitative courses.
- Two elective courses (6 credits total; 3 credits per course): Students can choose two other courses within the Department of Education, including courses in supervised research.
- EDUC 5800 Master's Project (3 credits): This course will be taken during the semester in which the student conducts and/or defends their master's thesis.

Master's Thesis

The thesis will consist of a research project in the student's area of focus. Before starting the project, the student will form a master's degree committee, consisting of at least three members with an appointment in the Department of Education. The membership of the master's degree committee must be approved by the Director of Graduate Studies. Once the committee is approved, the student will submit a proposal for the research project to the committee. After the committee approves the project, the student will conduct the project and then write it up. Finally, the student will submit the written thesis document to the committee and then engage in a public defense of their thesis. Upon successful defense of the thesis and approval by the committee, the thesis will be submitted to the Office of Graduate Studies and the MA in Education (with thesis) will be awarded.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching is of paramount importance in the field of education. Regardless of a PhD student's career path after graduating, acquiring the knowledge, skills, and experience needed to be an effective teacher will facilitate their future success. Since the field is multidisciplinary in nature, our students are trained both within the department and the various programmatic units with which the department is associated (e.g., African & African-American Studies, Sociology, American Culture Studies, Psychological & Brain Sciences, Romance Languages & Literatures, East Asian Languages & Cultures, and Women, Gender & Sexuality Studies). As part of their degree requirements, students are expected to complete mentored teaching experiences (MTEs), which can consist of assisting with the instruction of a course or serving as an independent instructor. Prior to their first MTE, students are required to attend the Graduate Student Mentored Teaching Orientation and at least one workshop through the Center for Teaching and Learning (CTL) as preparatory engagement. During their MTEs, students are mentored in the arts and sciences of teaching by faculty members in the Department of Education. They are also encouraged to continue their professional development by attending additional workshops and engaging in other activities designed to broaden and deepen their pedagogical expertise.

An MTE represents a collaborative engagement between a PhD student and a faculty mentor wherein the student reflects on and interprets disciplinary knowledge; identifies multiple ways to represent disciplinary content; adapts content to students' abilities and prior knowledge; and develops methods to assess and improve the teaching and learning process in a discipline. A student pursuing an MTE will enroll in a course of a similar title. Students enrolled in an MTE will have an assigned faculty mentor supporting the students' development to become educators able to communicate or evaluate disciplinary knowledge. This intellectual development is especially important for those seeking careers as academics or citizen scholars.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Preparatory Engagement represents an important, foundational component to training in pedagogy that occurs before the first MTE. At a minimum, all PhD students will complete the following two activities via the Center for Teaching and Learning:

1. Graduate Student Mentored Teaching Orientation
2. One 90-minute teaching workshop

PhD students may be required to complete additional Preparatory Engagement activities, if necessary (e.g., targeted English language coursework for second-language teaching).

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Education AI roles are weighted at 10 MER units. The PhD student performing the AI duties is formally listed as instructional support in the course listings and receives mentorship from the faculty member in best practices in classroom engagement, instruction in the field, interpersonal engagement, as well as other relevant skills. The PhD student should receive regular feedback or evaluation from the mentor throughout the semester and should be evaluated by the students in the course at the end of the term as part of the course evaluation.

The activities associated with the role of an AI may encompass some or all of the following:

- Preparing and assigning course materials
- Managing Canvas
- Developing quizzes or exams
- Supervising projects
- Guest lecturing in class
- Leading discussions

- Holding office hours
- Grading and evaluating assignments
- Leading a recitation section
- Leading a group project
- Providing logistical support
- Administering quizzes or exams
- Answering questions about the course or assignments
- Conducting review sessions for groups of students

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students who have successfully completed at least 20 MTE units as an AI and who have also completed their Doctoral Qualifying Portfolio may apply for MIT in the department on a topic related to the student's area of expertise. Given that some of our PhD students enter the program with considerable experience teaching undergraduates, they may request a waiver for these requirements and apply for MIT without first serving as an AI. However, the granting of such waivers is expected to be a rare occurrence reserved for exceptional cases.

As a Mentored Independent Instructor, students may take a principal role in the development of the course topic, the syllabus, the course's organization, office hours, and grading for a 1000- or 2000-level course in which the PhD student is the instructor of record. Evidence of success as an AI during multiple MTEs should accompany the student's application for MIT, which could include performance assessments from a previous teaching mentor, student feedback on course evaluations, and a statement of support from the student's advisor. Students may also use relevant teaching experiences that occurred in other departments or prior to the start of their degree program as evidence for their MIT application. Applications for MIT should be completed via the Mentored Independent Teaching Application Form submitted to the Director of Graduate Studies for consideration by the Department of Education's Curriculum Committee.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

PhD students are required to complete a minimum of 40 total MTE units during their time in the program, with a maximum of 50 total MTE units completed and no more than 20 MTE units completed during any single semester.

Pathway #1

ASGS 8010	Take four times

Pathway #2

ASGS 8010	Take three times
ASGS 8020	Take one time

Higher Education, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 12
- **Certificate Length:** Varies
 - Current Washington University Arts & Sciences doctoral students who are interested in pursuing the Graduate Certificate Program in Higher Education (GCPHE) may begin taking courses pursuant to the Certificate upon entry into the university. Students in departments outside of the Department of Education must obtain approval from their primary (PhD) program of study in order to officially enroll in the GCPHE.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

- **Grade Requirement:** Students must achieve a grade of C or better for courses to count toward the certificate program. Students are expected to maintain a cumulative grade point average of at least a 3.0 on a 4.0 scale in courses that count toward their requirements. Thus, among courses of equal weight, each grade of C must be balanced by at least one A.

Required Courses

Doctoral students interested in pursuing a Graduate Certificate in Higher Education must take a total of either four courses (12 total credit units) *or* three courses (9 total credit units) and engage in a 3-credit-unit Mentored Experience in Higher Education (MEHE) through the Department of Education. Students will complete only one course from each of the following course groupings until their 9- or 12-credit-unit requirement has been met: 1) Foundations of Education, Assessment, and Evaluation; 2) Diversity and Inclusion in Education; and 3) Critical Issues in Higher Education. Students may elect to take a further course in Critical Issues in Higher Education or to enroll in an MEHE. To enroll in an MEHE, the student consults with the practicum supervisor, and then, the MEHE must be approved by the director of graduate studies in the Department of Education.

Contact: Alyssa McDonald
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 Email: alyssa.mcdonald@wustl.edu
 Website: <http://education.wustl.edu>

English

The Department of English offers the degrees of **Master of Arts (MA) and Doctor of Philosophy (PhD) in English and American Literature** and **Doctor of Philosophy (PhD) in English and Comparative Literature**. Candidates for admission apply to the PhD program; we do not accept students for a standalone MA. The Department of English also offers a **Master of Fine Arts (MFA) in Writing**.

The graduate program in English and American Literature at Washington University in St. Louis is innovative and approachably sized. Our faculty includes Guggenheim Fellows, winners of the National Book Critics Circle Award, and members of the American Academy of Arts and Sciences. As a participant in the Carnegie Initiative on the Doctorate, we exemplify an integrated community of scholars and writers, and we are home to one of the top ten MFA programs in the United States. We sponsor multiple reading groups, regular faculty and student colloquia, and an extensive lecture series. The Hurst Visiting Professorship brings eight or more distinguished creative and critical voices to the department each year. Hurst Professors have included Jerome McGann, Jed Esty, Charles Altieri, Carla Kaplan, Michael Wood, James Longenbach, Peter Coviello, Daniel Vitkus, Rita Felski and Rita Copeland. These professors present public talks, and they also lead small workshops open only to graduate students.



Our program is rooted in the materials of literary history, from medieval to post-postmodern times, and we embrace the importance of interdisciplinarity. We believe that intellectual community is fostered by concrete working relationships between professors and students, and we offer collaborative teaching opportunities with experienced faculty.

Contact: Mark Longden
Phone: 314-935-5120
Email: mark.longden@wustl.edu
Website: <http://english.artsci.wustl.edu/graduate>

Faculty

Chair

Jessica Rosenfeld
Professor
PhD, University of Pennsylvania

Director of Graduate Studies

Wolfram Schmidgen
Professor
PhD, University of Chicago

Director of Undergraduate Studies

J. Dillon Brown
Associate Professor
PhD, University of Pennsylvania

Director of the Creative Writing Program

Danielle Dutton
Professor
PhD, University of Denver

Department Faculty

Ama Bemba Adwetewa-Badu
Assistant Professor
PhD, Cornell University

Jennifer Arch
Teaching Professor
PhD, Washington University

G'Ra Asim
Assistant Professor
MFA, Columbia University

Miriam Bailin
Associate Professor Emerita
PhD, University of California, Berkeley

Mary Jo Bang
Professor
MFA, Columbia University

Guinn Batten
Associate Professor
PhD, Duke University

Hester Blum
Lynne Cooper Harvey Distinguished Professor of English
PhD, University of Pennsylvania

Bethany Daniels
Senior Lecturer
MA, University of Missouri–St. Louis

Kathryn Davis
Hurst Writer in Residence
BA, Goddard University

Gerald L. Early
Merle Kling Professor of Modern Letters
PhD, Cornell University

Jonathan Eburne
J.H. Hexter Professor in the Humanities
PhD, University of Pennsylvania

Wayne Fields
Lynne Cooper Harvey Chair Emeritus in English
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Erin Finneran
Senior Lecturer
PhD, Washington University

Kathleen Finneran
Senior Writer in Residence
BA, Washington University

Gabi Kirilloff
Assistant Professor
PhD, University of Nebraska–Lincoln

Marshall Klimasewski
Senior Writer in Residence
MFA, Bowling Green State University

David Lawton
Professor Emeritus
FAAH, PhD, University of York

Joseph Loewenstein
Professor
PhD, Yale University

Phil Maciak

Senior Lecturer
PhD, University of Pennsylvania

William J. Maxwell

Fannie Hurst Professor of American Literature
PhD, Duke University

William McKelvy

Associate Professor
PhD, University of Virginia

Edward McPherson

Professor
MFA, University of Minnesota Twin Cities

Heather McPherson

Senior Lecturer
MFA, University of Minnesota Twin Cities

Melanie Micir

Associate Professor
PhD, University of Pennsylvania

Robert Milder

Professor Emeritus
PhD, Harvard University

Michael O'Bryan

Senior Lecturer
PhD, Washington University in St. Louis

Anca Parvulescu

Liselotte Dieckmann Professor in Comparative Literature
PhD, University of Minnesota

Amy Pawl

Teaching Professor
PhD, University of California, Berkeley

Carl Phillips

Professor Emeritus
MA, Boston University

Stephanie Pippin

Senior Lecturer
MFA, Washington University

Vivian Pollak

Professor Emerita
PhD, Brandeis University

Martin Riker

Teaching Professor
PhD, University of Denver

David Schuman

Teaching Professor
MFA, Washington University in St. Louis

Vincent Sherry

Howard Nemerov Professor in the Humanities
PhD, University of Toronto

Matthew Shipe

Senior Lecturer
PhD, Washington University in St. Louis

Victoria Thomas

Teaching Professor
PhD, Washington University in St. Louis

Abram Van Engen

Stanley Elkin Professor in the Humanities
PhD, Northwestern University

Julia Walker

Professor
PhD, Duke University

Sarah Weston

Assistant Professor
PhD, Yale University

Beth Windle

Senior Lecturer
PhD, Washington University in St. Louis

Rafia Zafar

Professor Emeritus
PhD, Harvard University

Steven Zwicker

Stanley Elkin Professor in the Humanities, Professor Emeritus
PhD, Brown University

Degree Requirements

- English and American Literature, PhD (p. 267)
- English and Comparative Literature, PhD (p. 272)
- Writing, MFA (p. 278)

Courses

Courses include the following:

- English Literature (p. 258)
- Writing (p. 265)

English Literature

ELIT 5001 Honors Thesis Tutorial

For students writing a Senior Honors thesis. May be taken fall and spring semesters of the senior year.

Credit 1 unit.

Typical periods offered: Fall, Spring

ELIT 5102 Medieval English Literature: Medieval Women's Writing

Topics course in Medieval English literature.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H



ELIT 5109 Topics in English Literature:

Readings in such authors as Carlyle, Tennyson, Browning, Mill, Arnold, and Pater.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5110 Topics in English and American Literature

Comparing the literatures – readings in the literature and theory of English and American Literature. Topics vary according to semester offerings.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

ELIT 5111 Topics in American Literature

Topics Course, topic varies per semester.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

ELIT 5112 Special Topics in Literature

Topics vary by semester. This is the graduate version on ELIT 4111.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5116 Topics in African-American Literature

Topics in African-American Literature

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

ELIT 5125 Topics in English and American Drama: 19th Century American Drama

Varies from semester to semester.

Credit 3 units. A&S IQ: HUM Art: HUM BU: HUM EN: H

ELIT 5146 Topics in English Literature I

Studies in special subjects, e.g., allegory and symbolism in the medieval period, the sonnet in English literature, English poetry and politics. Consult Course Section Listings.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5148 Topics in English Literature

Topics in 19th Century Literature vary by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5156 Selected English Writers I: Virginia Woolf: Novelist and Feminist

Concentrated study of one or two major English writers, e.g., Spenser, Dickens, Blake, Yeats. Consult Course Listings.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

ELIT 5158 Chaucer

Geoffrey Chaucer, "Father of English Literature," is renowned for his comic brilliance, his boisterous portrait of medieval England in *The Canterbury Tales*, and his transformation of English itself into a full-fledged poetic language. He is also sometimes thought of as "modern"—an early feminist, critic of church and state, tolerant of other faiths and seeker of ambiguity and irony over piety and certitude. We will strive to understand Chaucer against the social and intellectual

background of his time, as we also explore the "Global Chaucer" who has been translated and adapted across the world. We will focus our reading on the whole of *The Canterbury Tales*, and consider Chaucer's debts to tradition as well as his innovations. As we read, we will consider various approaches to Chaucer's poetry: historical (literary, intellectual, and biographical history), feminist, queer, and postcolonial. No prior experience reading Middle English is required—we will work on getting everyone "fluent" in Chaucer (including oral fluency) by the end of the term. This course satisfies the Medieval historical Requirement.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5199 Milton

Major poems and prose works in relation to literary and intellectual currents of the 17th century.

Credit 3 units. A&S IQ: HUM Art: HUM BU: HUM EN: H

ELIT 5323 Reading in the Renaissance: Literature and Media in Early Modern England

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

ELIT 5410 Medieval English Literature I

Credit 3 units. A&S IQ: HUM Art: HUM BU: HUM EN: H

ELIT 5411 Topics in Literature

Topics vary by semester.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5422 American Literature II

Topics vary by semester.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

ELIT 5423 Topics in American Literature

Credit 3 units.

ELIT 5440 James Joyce's *Ulysses*

Credit 3 units.

ELIT 5472 History of the English Language

Concepts and methods of linguistical study: comparative, historical, and descriptive. Application of methods to selected problems in the history of English. Contrastive analysis of excerpts from Old, Middle, and later English; sounds, meanings, syntax, and styles.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

ELIT 5600 Literary Studies and Graduate Research

This course seeks to prepare students for successful doctoral study in literary studies. Rather than aiming to provide a comprehensive survey of the multifaceted discipline via coverage of literary periods or literary theory, this course invites us to grapple with the core questions and prominent debates surrounding its methods and objectives. Foregrounding the dis-orienting effects of the literary, the course begins by examining the history of the discipline and its institutions, including shifting definitions of our objects of study; the histories of exclusion and inclusion that accompany these shifts; and, issues of

canonicity, especially as they relate to empire building both within and outside the academy. Then, we will explore the methods of literary critique, thinking about what is at stake in the objects we study and the ways we choose to read them. Finally, we will engage with challenges to the traditional organizing principles of our field, including its geographies, periodization, and archives. In elucidating the multiple contexts and histories that condition our position within the university in the present moment, this course aspires to nuance the values and effects of pursuing an English Ph.D. for doing work both in and beyond academia.

Credit 3 units.

Typical periods offered: Fall

ELIT 5601 Seminar in Literature

The novelist and essayist Marilynne Robinson first achieved national acclaim with "Housekeeping" (1980), a haunting coming-of-age novel about two sisters set in the beauty and grandeur of the west. That novel eventually established Robinson at the Iowa Writers Workshop where she taught for many years. What many noticed in her first book was a new sort of voice, a lyric prose, which returned over two decades later in her Pulitzer Prize winning novel "Gilead" (2004). Since then, she has written two more novels ("Home" and "Lila") set in the same town, but with radically different voices and perspectives. Between these novels and her collected essays, Robinson's work engages issues of race, gender, history, regionalism, and religion. Her later work has focused in particular on the role of the humanities and higher education. She has been a lecturer in high demand (appearing at Wash U in November 2018), and she has been interviewed many times—most noticeably by Barack Obama for "The New York Review of Books." In this class, we will read all her published books, asking questions of development, style, and voice. Meanwhile, as we see what critical engagements have been made with her writings, we will situate her within broader academic discourses (like feminist studies, critical race theory, or religion and literature), and ask how various approaches can open new insights into her writings. In this class students will write both a personal essay (responding to an essay of Robinson's) and a critical seminar paper engaging any topic raised by her work.

Credit 3 units.

Typical periods offered: Fall

ELIT 5602 Seminar in American Culture

Organized around the theme of "the trouble with normal," in this course we will reflect on the lives, works, and reputations of poets who engaged their own gendered anxieties and ambitions through their psychologically complex encounters with Emily Dickinson (1830-1886). Beginning with Dickinson's first poem, a satiric valentine that mocks the imperative to marry, we will explore some of the ways in which the self-described "Queen of Calvary" and her critics influenced modernist poets such as Marianne Moore (1887-1972), Elizabeth Bishop (1911-1979), Gwendolyn Brooks (1917-2000), and Sylvia Plath (1932-1963). There will be some attention to the electronic archives that enable twenty-first century literary editing; "troubling" theorists will include Robert Duncan, Muriel Rukeyser, Adrienne Rich, Sandra Gilbert, Susan Gubar, Susan Howe, Toni Morrison, Eve Kosofsky Sedgwick, Michael Warner, Lauren Berlant, Peter Coviello, and Sianne Ngai.

Credit 3 units.

ELIT 5603 Seminar: The Middle Ages

Some of the greatest poems ever written in English -- "Beowulf," "Sir Gawain and the Green Knight," "Piers Plowman" -- were composed in alliterative meter, which was the staple poetic form of Old English, was revived in the fourteenth and fifteenth centuries, but ceased to be composed during the sixteenth century. This course will read alliterative poems: the three works listed in the title, and several

others from Old and Middle English (including works of political and religious opposition). Students may use specific translations (Heaney's "Beowulf," Tolkien's and Armitage's "Gawain," Donaldson's "Piers") but are encouraged to become familiar with the original language, style and sound of these poems. We shall study alliterative poetry historically as well as critically: who wrote it, and who read it? Why was it revived in later medieval England, and from what sources? Given the quality of the later works, why did the form apparently die out? Did it really do so, or was its future history in poetry and prose masked by linguistic and cultural change, and by later scholarly misunderstanding? We shall think about historical memory and archive, reading communities and literary culture/s. So the course models questions about understanding (and imagining) the literary production of a distant past, offers the intense and often unexpected pleasures of reading it, and asks how in fact it might be more closely related to the present.

Credit 3 units.

ELIT 5604 Seminar: The Middle Ages

This course will investigate historical understandings of sex, gender, and sexuality in Western European culture from the twelfth through the fifteenth centuries. We will focus on questions of sexual difference, nature and nurture, the existence (or non-existence) of cultural "norms," the emergence of identity tied to erotic desire, sexual power dynamics and consent, and depictions of transgender and non-binary people. Our primary readings will emphasize literary works, but these will be continuous with texts emerging from medical, legal, and religious discourses. How contingent or intractable are understandings of gender and sexuality in medieval culture, and how do they shift within contexts of class, race, and religion? We will read lives of saints, a romance about a transgender youth (Heldris of Cornwall's Silence), mystical visions of erotic union with Christ, and works by Hildegard of Bingen, Geoffrey Chaucer, Christine de Pizan, and more.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5605 Seminar: The Renaissance:

As social, legal, and political systems scramble to come to terms with the degree to which our world is mediated by artificial intelligence and algorithmic logic, it is increasingly apparent that AI troubles and undermines certain fundamental post-enlightenment categories: subject and object, self and other, individual and collective. This course will trace the history of cultural representations of artificial intelligence in the West to ask how they might help us interrogate such structuring binaries. How might we understand the uncanny, inhuman, relentless instrumentality of artificial intelligence as the absurd limits of late capitalist logic? On the other hand, how might its destabilization of comfortable categories afford opportunities for truly radical reexamination and critique? Covering a wide range of texts from the early modern period to the present day - novels such as Swift's "Gulliver's Travels," Shelley's "Frankenstein," Butler's "Erewhon," films including "Metropolis," "Blade Runner," "Matrix," and philosophical works from Descartes and Leibniz, to Lyotard and DeLanda - this course will trace the ways in which AI, either conceived as machinic automata or as systemic or collective intelligence, has informed our thinking about what it means to be human. The class will prepare students to engage with various emergent strands of contemporary criticism including posthumanism and ecocriticism and to forge an independent research agenda.

Credit 3 units.

Typical periods offered: Fall

ELIT 5606 Seminar: Renaissance Race Theory and Early Modern Culture

This course will explore how literary and popular texts of the early modern period represent and produce racial identities. We will consider the characteristic shapes of racial fictions in early modern England -- occasionally comparing literary examples with period scientific, visual, and material texts. In addition, we will reflect on the methodology of reading race in cultures other than our own, with frequent recourse to critical race theory, using both work focused on the early modern period and work that engages race more generally (e.g., Kim Hall, Stephen Jay Gould, Anthony Appiah). Readings will include poetry by Shakespeare, Sidney, and William Herbert; fiction by Aphra Behn; plays by Shakespeare, Marlowe, and Middleton; we will also compare early modern representations of race to a few later representations, likely including Wilkie Collins' "Poor Miss Finch" and "The Jazz Singer."

Credit 3 units.

ELIT 5607 Seminar: The Renaissance

The Restoration of Stuart kingship in 1660 opened an era of remarkable cultural production and public scandal. Women took to the stage as the theater was restored; intrigues, political and amorous, became the very subject of both high culture and low gossip; the memory of civil war haunted the age, and riot and revolution repeatedly threatened the precarious life of the state. Public affairs--both civic and sexual--transfixed this age, and indeed shaped its most important cultural forms and modes: ballads and newspapers, satires and lampoons, heroic dramas and witty comedies, diaries and letters, translations, satires and epic poems. Amid the dangers and miscellany of public life, writers fashioned new modes of literature and negotiated new strategies of livelihood. We will look closely at a number of aspects of this culture, the commerce of personal and textual transactions, its great and scandalous careers, its important genres, its scintillating verse, prose, and plays. Our reading will range widely, compassing the most distinguished authors of the age--Aphra Behn, William Congreve, John Dryden, John Evelyn, Anne Killigrew, Andrew Marvell, John Milton, Samuel Pepys, Katherine Philips, John Wilmot, Earl of Rochester--as well as news-sheets, pamphlets, and other print ephemera.

Credit 3 units.

Typical periods offered: Spring

ELIT 5608 Seminar: The 17th Century

Graduate Seminar on the Restoration: intensive readings of Restoration poetry, drama, and critical prose (Milton, Marvell, Dryden, Rochester, Behn, Mulgrave, Sedley, Congreve) together with secondary literature and work on primary resources available through electronic sites.

Credit 3 units.

ELIT 5609 Seminar: The 17th Century

This seminar takes as its subject the writings of Andrew Marvell and the literary culture from which and in relation to which those writings emerged. We shall ask, for example, what Marvell's "Coy Mistress" has to do with the *carpe diem* poetry of his cavalier contemporaries and in what ways Marvell's mowers and virgins keep company with the shepherds and maidens of contemporary pastoral and romance. And when Marvell turned his attention to emergent heroes in the 1650s, we shall want to know how this poetry of public affairs, The Horatian Ode and The First Anniversary, fits together with contemporary verse on similar occasions: with Royalist traditions of praise and panegyric and with contemporary celebrations of an emergent Republican state. This seminar will be an occasion to read poetry and prose of the mid-17th-century England, and especially of its greatest lyric poet, and to consider the sociality of that writing and the meaning of literary intertextuality.

Credit 3 units.

ELIT 5610 Seminar: The 18th Century

We live in period of weakening boundaries and increasing mobilities. The objects that today we are willing to host in our bodies; the electronic mediation of intimacy, sociability, and political action, the restless circulation of commodities and capital around the globe, the splicing of corporations across multiple nations, and the increasing contact between people from different cultural and ethnic backgrounds all contribute to this. This class sees our growing boundlessness as an opportunity to reexamine the scientific, theological, and literary representation of species in the period between 1660 and 1832. The concept of species is central to the construction of boundaries between different things, and its close relationship to notions of variety, identity, kind, essence, rank, and genre make it an especially rewarding focus of investigation. The class will introduce students to the construction of research agendas around a single concept and show how such a focus can open up and sustain interdisciplinary inquiry. Readings will range widely and likely include works by Aristotle, Boyle, Locke, Defoe, Fielding, Swift, Darwin, Deleuze/ Guattari, Agamben, and others

Credit 3 units.

ELIT 5611 Seminar: The 18th Century

This course examines a period (1680-1750) when a remarkable range of world models were elaborated and debated--in religion, politics, and philosophy. Spurred in part by the rise of skepticism, atheism, and the tribalization of culture, these debates helped shape literary invention in the period and infused it with a utopian sense of possibility. We will study some of the world-makers in philosophy and theology and examine their influence on some canonical (Swift, Pope, Defoe) and less canonical writers (Cavendish, Lennox, Blackmore). Along the way, we will try out some tools to assist our thinking about these materials, from critiques of modernization narratives to the ontological turn and the hermeneutics of hope (Rita Felski, Dipesh Chakrabarty, Ernst Bloch, Eduardo Kohn).

Credit 3 units.

Typical periods offered: Spring

ELIT 5612 Seminar: The 19th Century

This class begins with two seminal Modernist portraits of the artist, one a writer, the other a painter (Joyce's "A Portrait of the Artist as a Young Man" and Woolf's "To the Lighthouse"), and then returns to a more detailed reading of a fifty-year period from the 1840s to 1890s to ask how artists of all kinds became prominent characters in literary works. Primary texts to include poetry by Alfred Tennyson and Robert Browning, as well as fictions by Wilkie Collins, Henry James, George Gissing, Oscar Wilde, Rudyard Kipling and the only recently canonized Amy Levy. We will foreground the historical forces, events, and technological developments that allowed the artist to become, by various accounts, both a sacred figure with a substantial social agency as well as a new name for the outcast, alien, or social deviant. While engaging with the aesthetic as a category with an ancient lineage, we will also emphasize a more local context defined by global commercial modernity and unsettled gender norms.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5613 Spenser Lab

This seminar is designed both for the prospective scholar of Romanticism (the student who will make it central to intensive study in the major fields of 18th or 19th century literature) and for the reluctant or even resistant reader of Romantic poetry. Reading the major texts of the field, primary and secondary, we will investigate a term that has always vexed even its enthusiasts--Romanticism--as it is defined, with particular focus on the so-called Big Six poets, in the

second decade of the 21st century. Indeed, this workshop will enable graduate students in other fields (whether their principle genre is poetry or fiction) to situate Romanticism within today's curriculum, which means within other fields dominated by those isms (modernism and post-modernism, structuralism and post-structuralism) provoked by a sometimes (for the Romanticist) maddening certainty as to what Romanticism means, or meant, or indeed could mean. Students of early modernism are most welcome, as we consider the burden of the past inherited by the sometimes begrudging heirs of Spenser, Shakespeare, and Milton. You need not have encountered in previous graduate or undergraduate courses the major Romantic poets—William Blake, William Wordsworth, Samuel Taylor Coleridge, Percy Shelley, Lord Byron, and John Keats—in order to benefit from a workshop that will provide intensive instruction in the art and scholarship of reading the Romantic lyric, the Romantic narrative poem, and the hybrid forms of Blake's composite art or Byron's rollicking Don Juan as these forms emerged in Britain between 1770 and 1830. We will read together the definitive scholarship of the past century during the crescendo of the Romantic lyric poem as the definitive example of British literary achievement against which other periods and forms were measured, from Irving Babbitt's vitriolic attack to the field's anxious self-questioning, provoked by deconstruction, New Historicism, and cultural studies. Situating the still-canonical Romantic poet within a literary culture that openly embraced the oral forms of outsiders and the special contributions of women writers (who cultivated both sense and sensibility), a culture that was alert to the political debates undermining old certainties about sovereignty and the scientific developments of what Richard Holmes recently called in a celebrated work the Age of Wonder, we will enlarge (as has the dominant scholarship in the field of British Romanticism) the sources and audiences that shaped the canonical Romantic poet. Our guiding question throughout the semester will be how to study, and teach, with fresh insights poets whose stature may already be shrinking, eclipsed by the very debates they themselves first provoked. Can there be an exceptional work of art in a democratizing era whose states of exception—revolutions in tastes, ethics, and political states—bind to, even as they put distance between, the contexts of the British Romantic Age and those of today's reader? Final projects will be encouraged that explore this question, either through intensive study of a single Romantic poet or within Romanticism or by locating the British Romantic poem within other fields of study.

Credit 3 units.

ELIT 5614 Seminar: American Literature: Big and Little Historicisms: Literary Scholarship after the New Formalism

This course examines two extraordinary, contemporaneous early American women poets: Anne Bradstreet (1612-1672) and Sor Juana Inés de la Cruz (1648-1695). Through their lives and work, we explore contrasting cultures of colonialism in early America. Both were religious, both were brilliant, and both wrote into and out of imperial experiences in very different settings (New England and New Spain). Anne Bradstreet published the first American book of poetry in English (1650), and she has been a mainstay of American literature ever since. The class will focus on studies of gender and religion in her writings, understanding her work more fully with studies of puritanism and English settler colonialism. For broader context and understanding of colonial writings, the course moves from Anne Bradstreet to the life and writings of the Mexican poet, intellectual, and cloistered nun, Sor Juana. We will study her poetry, her dramatic works, as well as her autobiographical and other writings. Special emphasis will be given to the colonial society in which she lived and the impact it had on her intellectual production. We will examine seventeenth-century Mexican convent culture and its role within the Church hierarchy as well as how her gender inflected her writing, using this as a backdrop from which to study Sor Juana's polemical relationship with the

ecclesiastical authorities. Together, the course will introduce broader understandings of colonialism through the comparison of these two poets, their works, and the very different early American contexts that gave shape to their lives and writings.

Credit 3 units.

Typical periods offered: Spring

ELIT 5615 Seminar: American Literature

Duke Ellington playing the Cotton Club. Raccoon coats, Stutz Bearcats, and militant Garveyites parading down Lenox Avenue. Langston Hughes and Zora Neale Hurston exchanging quips at the Dark Tower salon. These are the some of the best-remembered scenes of the Harlem Renaissance, a movement of African American artists—literary, musical, and visual—who personified the "New Negro" and transformed uptown Manhattan into an international headquarters of Black intellectual life from the late nineteen-teens to the early nineteen-thirties. This graduate seminar will reexamine Harlem's self-modernizing rebirth on the centennial of Jean Toomer's "Cane" (1923), the movement's most treasured text, exploring the intricate histories behind the iconic images. We'll study poems, stories, novels, essays, and memoirs by a varied group of writers (Hughes, Hurston, Toomer, W.E.B. Du Bois, Jesse Fauset, Nella Larsen, Claude McKay, Sterling Brown) and their collective debt to pioneering jazz and blues musicians (Ellington, Ma Rainey, Bessie Smith, Fats Waller) and scene-setting visual artists (Aaron Douglas, Jacob Lawrence, Gwendolyn Bennett). We'll compare these figures' visions of the Great Migration and the Black Metropolis, racial pride and racial passing, Jazz Age sexuality and respectable secrecy, avant-garde experiments and modernist primitivisms. Finally, we'll sample some of the most important recent chapters in Harlem Renaissance scholarship, from studies of the movement's American cultural nationalism (David Levering Lewis and George Hutchinson), to theories of its channels to Black diasporan travel and translation (Brent Hayes Edwards and Michelle Stephens), to intimate archival histories of the everyday Afro-modernisms of "riotous Black girls, troublesome women, and queer radicals" (Saidiya Hartman and Daphne Brooks). As a whole, the class aims to provide graduate students with an advanced introduction to African American aesthetic modernism as it was lived, represented, and conceived in the matrix and "Mecca of the New Negro."

Credit 3 units.

Typical periods offered: Fall

ELIT 5616 The 20th Century

Whether a video game adaptation of Walden or a digital map of London authors, digital tools increasingly shape how we study and represent literature. This course will expose students to scholarly conversations about critical making - the notion that making is a form of intellectual, scholarly praxis. Students will gain hands-on experience creating digital, scholarly objects. Students will learn about the Critical Making movement and how it engages significant theoretical movements in literary studies, including new media theory, affect theory, feminist theory, and archival studies. We will read texts by authors including Safiya Noble (Algorithms of Oppression), Bill Endres ("A Literacy of Building"), and Sasha Costanza-Chock (Design Justice). Students will learn tools for creating scholarly objects that engage literature, such as digital maps, interactive visualizations, and videogames. We will think critically about the tools we are using and the objects we are making, situating them among a rich, interdisciplinary body of scholarship. By the end of the semester, students will have created a digital object and written an essay about how the process of creation informed their scholarly praxis. There are no prerequisites for this course; no prior experience with digital technology or the digital humanities is required.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5617 Seminar in American Literature

In her foundational 2007 book, *Lose Your Mother*, literary theorist Saidiya Hartman argues that "[i]f slavery persists as an issue in the political life of black America, it is . . . because black lives are still imperiled and devalued by a racial calculus and a political arithmetic that were entrenched centuries ago. This," she continues, "is the afterlife of slavery-skewed life chances, limited access to health and education, premature death, incarceration, and impoverishment." As Hartman points out, even in the wake of emancipation, descendants of enslaved Africans have continued to navigate the perils of transatlantic slavery, and to shoulder its lingering effects upon the shape of black being. Motivated by these instructive observations, this course turns to a diverse archive of black artistic and cultural production to critically analyze the structural conditions that animate and enable the afterlives of slavery, whether juridical and legislative maneuvers or environmental and housing policies. At the same time, it also considers the broad range of aesthetic and political strategies that black people have mobilized to pressure and unsettle the vibrant legacies of transatlantic slavery. Moving across the long twentieth century, we will study works by artists like W.E.B. Du Bois, Zora Neale Hurston, Richard Wright, Lorraine Hansberry, Henry Dumas, Amiri Baraka, Gayle Jones, Essex Hemphill, Natasha Trethewey, Claudia Rankine, and Kiese Laymon. We will pair these with recent scholarship in black studies, literary theory, gender and sexuality studies, queer theory, environmental studies, and affect theory, for instance, in order to critically analyze the fabric of slavery's afterlives in the wake of U.S. emancipation.

Credit 3 units.

Typical periods offered: Spring

ELIT 5618 Seminar:

This seminar course will vary in topics per semester. Please see section each term for the set topic.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5619 Seminar: Modernism

Seminar topics vary according to semester offerings.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5620 Seminar: Modernism and Postmodernism in American Literature

Designed for future teachers preparing to offer survey courses in American Literature.

Credit 3 units.

ELIT 5621 Seminar in Minority Literary Traditions

Who were the Black intellectuals of the 18th and 19th centuries? What were their prescriptions for freedom and self-governance? How did they reflect on self and community, gender roles, and the African diaspora? A variety of texts—from autobiographies and novels to manifestos and newspaper editorials—will illustrate how Black women and men before Reconstruction thought about the condition of their people, whether in the physical or in the psychic sense. Some of the writers used their personal experiences to change the discourse by fostering empathy and sympathy; some took expressly political stands, sometimes advocating for violent self-defense. The rhetorical styles differed, as African Americans were distinguished then as now by gender, social status, and region, but they shared a common goal: an empowered, educated Black citizen.

Credit 3 units.

Typical periods offered: Fall

ELIT 5622 Readings in American Literature and Culture

For Graduate Students Only. Readings in American Literature and Culture which will vary by semester.

Credit 3 units.

ELIT 5623 Seminar: Contemporary Irish Poetry: Literary Tradition, Postcolonial States, and Postmodern Subjects

In readings of poets, both the particular contexts that have shaped what is now called a second Irish literary renaissance and the larger questions of how Irish poems from both sides of the border that still partitions the island may be read in relation to the ideologies of nation, gender, and the global marketplace.

Credit 3 units.

ELIT 5624 Literary Pedagogy

Permission required by the Department.

Credit 3 units.

ELIT 5625 Topics in 20th Century and Later Literature

Varies from semester to semester.

Credit 3 units.

Typical periods offered: Spring

ELIT 5626 Craft of Fiction

In her introduction to Halldor Laxness's novel *Under the Glacier*, Susan Sontag says, Narratives that deviate from [the] artificial norm of realist fiction and tell other kinds of stories, or appear not to tell much of a story at all...still, to this day, seem innovative or ultraliterary or bizarre, suggesting they occupy the outlying precepts of the novel's main tradition, and it is with some of these Martian fictions that this class will be concerned. Deviants we'll be reading: Djuna Barnes, Rikki Ducornet, Kate Bernheimer, Jaimy Gordon, Kathryn Davis, and other such lady heteroclitics. You'll be asked to produce aberrant fictions of your own. Cross-dressers welcome. Craft class for Graduate Students only.

Credit 3 units.

Typical periods offered: Fall

ELIT 5627 Literary Criticism

Over the last twenty years or so, postcritique has become a momentous challenger to established ways of doing literary scholarship. To some, postcritique is the most significant reorientation of literary criticism since the 1980s, when the New Historicists chased deconstruction out of English departments. To others, postcritique represents a lamentable surrender to the de-politicizing agenda of the neoliberal university. In this class, students will have the opportunity to reexamine the tradition of critique and gain an understanding of how postcritique emerged from it. We will study major examples of critique and postcritique and trace the intellectual histories that animate these different practices of literary scholarship. Central figures are likely to include Marx, Freud, representatives of the Frankfurt School, Fredric Jameson, Paul Ricoeur, Rita Felski, Bruno Latour, Eve Sedgwick, and Heather Love.

Credit 3 units.

Typical periods offered: Spring

ELIT 5628 Modeling Interdisciplinary Inquiry

One of the most contested subjects of analysis has been and continues to be the human body and its lived experience. Bodies are cultural, political, economic, medical, literary, and historical; they are gendered, and sometimes even individual and personal. As the academy works to accommodate the body in its theoretical frameworks and is inspired by the body to ask new questions, real bodies continue to live out

their experiences, resulting in a dynamic, exciting field of inquiry. This seminar is designed to explore the major themes and disciplinary areas concerned with understanding the human body as a lens for analyzing culture, society, and art-visual and literary-as well as science, religion, and politics. Our primary focus will be on theories of the body and bodily experience from antiquity to the present in Europe and North America, but we will also investigate the tensions between theory and representation of the body in other parts of the world. The body is a hotly contested subject precisely because of its intensely personal importance, and this course will navigate the disputed body as much as the theorized body. Our major source materials will include recent scholarly monographs from history, cultural studies, literary and feminist theory, as well as several works of fiction, art, and film.

Credit 4 units.

Typical periods offered: Spring

ELIT 5629 Science Studies Literary Studies

Graduate level Seminar for Graduate Students only

Credit 3 units.

ELIT 5630 Theorizing the Multitude

Figures of multitude, mixture, and hybridity have gained increasing currency among politically-oriented critics over the last fifteen years or so. This class examines some of the recent theorizations of multitude and its allied concepts, mixture and hybridity, from the perspective of their origins in seventeenth-century philosophy. Readings are likely to include selections from Benedict de Spinoza, Thomas Hobbes, John Locke, Homi Bhaba, Antonio Negri, and Giorgio Agamben. Our goal is to gain a perspective on the paradigm that currently drives some of the most original research in literary and cultural studies.

Credit 3 units.

ELIT 5631 Literature Seminar

Graduate seminar for graduate students only. Varied Topics.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5632 Ethics of Literature

Graduate Seminar limited to Graduate Students on the ethics of literature.

Credit 3 units.

ELIT 5633 Topics in Advanced Theory- Theory of the Novel

The novel has received a sizable share of critical energy. What is it? Where did it come from? How did it develop? What are its ideological tendencies? What are its characteristic preoccupations? In this course we will read a range of influential writings on the novel's origins and development, its defining form and content. These writings will be considered within their own critical contexts (feminist, Marxist, structuralist, etc.) and within the specific historical contexts out of which the novel emerged (shifts in class and gender formation, the development of modern conceptions of the self, the material production of the book). Several novels from the 18th and 19th century will form the basis of our application of theory to text, from methodological abstraction to reading experience, among them, PAMELA, WAVERLEY, and JANE EYRE.

Credit 3 units.

Typical periods offered: Fall, Spring

ELIT 5634 Seminar: Old English: Beowulf, Gawain, and Piers**Plowman: Alliterative Poetry in Medieval Britain**

Some of the greatest poems ever written in English Beowulf, Sir Gawain and the Green Knight, Piers Plowman were composed in alliterative meter, which was the staple poetic form of Old English, was revived in the fourteenth and fifteenth centuries, but became obsolete during the sixteenth century. This course will read alliterative poems: the three works listed in the title, and several others from Old and Middle English (and Middle Scots too); students may use specific translations (Heaney's Beowulf, Tolkien's Gawain, Donaldson's Piers) but are encouraged and expected to become familiar with the original language, style and sound of these poems. We shall study alliterative poetry historically as well as critically: who wrote it, and who read it? Why was it revived in later medieval England, and from what sources? Given the quality of the later works, why did the form die out? We shall think about historical memory and archive, reading communities and literary culture/s. So the course models questions about understanding (and imagining) the literary production of a distant past, and offers the intense and often unexpected pleasures of reading it.

Credit 3 units.

ELIT 5637 Modern Poetry I: Modernisms

American and British poetry before, during, and after World War I. Readings include Hardy, Yeats, Frost, Stein, Eliot, Williams, Moore, Johnson, Pound, H.D. and Stevens, as well as selections from Wordsworth, Whitman and Dickinson. First half of two-course sequence; second half optional

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

ELIT 5638 Topics in Literature: Queer Youth: LGBTQ Narratives of Coming-Of-Age and Coming Out in North America

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

UColl: ENL

ELIT 5800 Research

This is a research course.

Credit 9 units.

Typical periods offered: Fall, Spring

ELIT 5850 Mellon Dissertation Seminar

The present seminar is organized around a sequence of overlapping historical units: in the first instance, a broad overview of a key decade of inquiry, the 1950s; in the second, recent autobiographies by major practitioners of neuroscientific inquiry (all trained in the '50s) who possess vastly different understandings of the field; and, third, a casen study of ongoing theoretical and experimental claims stemming from single institution-the Neurosciences Institute in La Jolla-across several generations of practitioners. In the seminar's concluding unit, the humanistic frame becomes less historical and more problem-oriented as we focus on recent neuroscientific work in a pair of paradigmatically humanistic domains: the problem of consciousness and experience of reading.

Credit 0 units.

ELIT 5900 Directed Reading

Permission required by the department.

Credit 6 units.

Typical periods offered: Fall, Spring

ELIT 5999 Independent Study

A detailed prospectus approved by a faculty member who has agreed to supervise the student's work must be approved by the director of undergraduate studies.

Credit 6 units.

Typical periods offered: Fall, Spring

ELIT 7000 Master's Continuing Student Status

This course is for continuing Master's students.

Credit 0 units.

ELIT 7010 Master's Non-Resident

This course is for continuing non resident Master's students.

Credit 0 units.

ELIT 7020 Masters Resident

This course is for continuing resident Master's students.

Credit 0 units.

ELIT 8000 Doctoral Continuing Student Status

This course is for continuing Doctoral students.

Credit 0 units.

ELIT 8010 Doctoral Non-Resident

This course is for Doctoral non resident students.

Credit 0 units.

ELIT 8020 Doctoral Resident

This course is for Doctoral resident students.

Credit 0 units.

Writing

WRITING 5090 Topics in Composition

In this class, we will delve into connections between fiction and the law using an interdisciplinary approach. Over the course of the semester, we will review legal themes in a variety of short stories, novels, and films, including natural and positive law, elements of due process, concepts like equal opportunity, the legal bases for state regulation of personal choices, and theories of punishment. At the same time, we will consider the craft of writing in these works. How do the authors use craft devices, like foreshadowing, metaphor, and analogy, to convey meaning? By inhabiting possibilities, what can speculative fiction show us about how legal decisions could affect the future of society? Each week of class is organized around a legal subject. We will read and discuss fiction that involves the theme, review the legal context, and explore how the authors express their perspectives in the stories and seek to generate reactions in readers. To help connect the works to the legal process, some weeks we will assign legal opinions that involve the same legal themes and consider how judges, like authors, frame their arguments both logically and stylistically. And, from time to time, we will give students prompts in class, asking them to quickly write about or argue an issue from a certain point of view. This class is designed for law school students, MFA students, and upper-class English major undergraduates. It is a three-credit class, meeting once per week, over 13 weeks, for approximately two hours and twenty minutes per week. The idea is to bring together students who do not usually take courses together,

to learn from each other. Over the course of semester, students will be assigned to prepare discussion points to bring to class. As a final, students will choose either a creative writing project or a seminar paper.

Credit 3 units.

Typical periods offered: Fall

WRITING 5210 Craft of Fiction

A literature/creative writing hybrid course; students will read a number of contemporary historical fictions—an increasingly important and innovative genre—and then write one of their own.

Credit 3 units. EN: H

WRITING 5310 The Craft of Poetry: The Prose Poem

This course is for writers who wish to study long-form poetic composition and book arrangement. The major assignment will be to compose a poem or poetic sequence of considerable length. Gwendolyn Brooks (*The Anniad*) and Theresa Hak Kyung Cha (*Dictée*) will be chief among our guides. We will study how poets arrange their books, and we will also make a brief foray into the material history of the book. Texts by Rosa Alcalá, John Ashbery, Daniel Borzutzky, Barbara Guest, Lyn Hejinian, Lorine Niedecker, Alice Notley, George Oppen, Ed Roberson, Brian Teare, and Simone White will also be included. This course counts toward the creative writing concentration. Prerequisite: L13 322.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

WRITING 5400 Topics in Composition

Composition topics course -- offerings will vary from semester to semester.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

WRITING 5611 Craft of the Novella

An endeavor to define what a novella might be (longer than a short story and shorter than a novel), how the form has evolved, and what problems and authority might be particular to it.

Credit 3 units.

WRITING 5612 First Books, Inside and Out

Literary publishing is in a period of rapid change. It's hard to say where the future of the book itself—much less your own first book—lies. And first books do present a unique set of challenges. In this class, we'll read recent first books of poetry, fiction, and creative nonfiction—talking not only about what each is doing, but also, via an interview with its author, the book's journey from inception through publication. To complement the authors' perspectives, we'll also have several visits or interviews with different literary editors. This is not a class on how to get published *per se*; we will be as interested in the publisher's challenges as the writer's. To that end, we'll ask why books get written and published the way they do; we'll attend to the diversity of interests and priorities each writer, book, and publishing alternative presents. In talking about different literary communities and the idea of community in general, we will also consider the state of book reviewing; each of you will write short reviews of the books we read and, then, a final review of an additional recent first book of your choosing (the hope being that you might submit this review for publication). You'll also be asked to give a presentation on a publisher (or aspect of publishing) and, in the final weeks, to present your own writing to the class. We'll discuss your work in terms of what's there on the page and also where it might go, how it might grow, how and why it might become your own first book.

Credit 3 units.

WRITING 5613 Craft of Fiction: The Novel

Only primarily open to students in the MFA Creative Writing Program, this is a workshop for writers at work on novels (CNF and Poetry program students need to check with the instructor). It's okay if you're in the early or late stages of composition--either way, we'll be subjecting this most fascinating form to close analysis in a weekly workshop focused chiefly on student work. Admission to this course for non-workshop students is by permission of the instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5622 Craft of Nonfiction

Topics vary by semester. Please check the most current course listing for a course description.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5700 Craft of Creative Nonfiction

This course features topics related to the craft of creative non fiction. Subject will change from semester to semester

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5702 Craft of Poetry

In this seminar, we'll discuss and enact various strategies for organizing a poetry manuscript. We'll borrow concepts and structures from film trailers, art curation, gardening, mix tapes/ playlists, architecture, city planning, and other literary arts like fiction and creative non-fiction.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5800 MFA Independent Study

Open only to students in the MFA Writing Program in the English Department, this course is a co-requisite of the MFA creative writing workshops, designed to afford students the time and space to complete the reading and writing required in the intensive workshops, where students share and critique their creative work, receive feedback, and work toward revision, with the goal of ultimately completing a graduate thesis.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5801 MFA Fiction Workshop

Open only to fiction students in the MFA Writing Program in the English Department, this course is an intensive workshop where students share and critique their creative work, receive feedback, and work toward revision, with the goal of ultimately completing a graduate thesis.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5802 MFA Poetry Workshop

Open only to poetry students in the MFA Writing Program in the English Department, this course is an intensive workshop where students share and critique their creative work, receive feedback, and work toward revision, with the goal of ultimately completing a graduate thesis.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5803 MFA Nonfiction Workshop

This is a graduate-level workshop in the craft of writing creative nonfiction, a genre distinct from (but at times surprisingly kindred to) fiction and poetry. It is also a genre in great flux. This class will attempt to define what, exactly, we think creative nonfiction is and what it can/should do as a literary form.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5900 Directed Writing: Thesis: Creative Nonfiction

Open only to students in the Writing Program. A tutorial for students writing a creative nonfiction thesis.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5901 Directed Writing: Thesis: Fiction

Open only to students in the Writing Program. A tutorial for students writing a fiction thesis.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5902 Directed Writing: Thesis: Poetry

Open only to students in the Writing Program. A tutorial for students writing a poetry thesis.

Credit 3 units.

Typical periods offered: Fall, Spring

WRITING 5910 Publishing Internship -- Dorothy, a Publishing Project

Dorothy, a publishing project -- a nationally acclaimed independent press publishing works of innovative fiction -- offers a one-year internship for an MFA student in creative writing. Students can apply in the spring of their first year to begin the internship the following fall. The intern chosen will work directly with Danielle Dutton, the press's editor, on mutually agreed upon projects that take into account the intern's interests and strengths. In general, however, the internship is designed to give students a wide range of experience with literary publishing and so will likely involve a mix of editorial tasks (e.g., reviewing submissions, writing reader's reports, copyediting manuscripts in layout), marketing, design, and book production and distribution. The intern will also have opportunities to represent the press publicly, including at the annual AWP conference (travel and hotel expenses will be covered), and the intern's name will appear on the press's masthead. Interested students should submit a letter of application and CV to Professor Dutton (ddutton@wustl.edu) and Program Director David Schuman (dschuman@wustl.edu) no later than March 15 of the spring semester of their first year. Prerequisite: Completion in good standing of the first year of the MFA in Creative Writing program and accepted application.

Credit 1 unit.

Typical periods offered: Fall, Spring

WRITING 5990 Seminar: Teaching Freshman Composition

Credit 3 units.

Typical periods offered: Fall

WRITING 5999 Independent Study

Independent study in creative or expository writing. Prerequisites: junior standing and permission of the department. Students proposing projects in fiction or poetry must submit writing samples for approval of the faculty members directing the work. Projects in expository writing must be described in detailed prospectuses and approved by the faculty members directing the work and by the director of undergraduate studies. Pass/No Pass Only



Credit 6 units.

Typical periods offered: Fall, Spring

WRITING 7990 Masters Non-Resident

Credit 0 units.

WRITING 7999 Masters Continuing Student Status

Credit 0 units.

WRITING 8990 Doctoral Non-Resident

Credit 0 units.

WRITING 8999 Doctoral Continuing Student Status

Credit 0 units.

English and American Literature, PhD

Contact: Rhiannon Amato
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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 45
- **Degree Length:** 5 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course

(ASGS 9000 Full-Time Graduate Research/Study) that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

- **Grade Requirement:** A minimum grade of B is required for coursework to count toward the degree.

Required Courses

Code	Title	Units
ELIT 5600	Literary Studies and Graduate Research	3
ELIT 5900	Directed Reading	6
WRITING 5990	Seminar: Teaching Freshman Composition	3

PhD in English and American Literature

The PhD program in English & American Literature at Washington University in St. Louis is a five-year course of study leading to a doctorate. All English graduate students take a minimum of 11 elective 3-credit courses at the 5000 level or above, along with two compulsory classes: ELIT 5600 Literary Studies and Graduate Research and WRITING 5990 Seminar: Teaching Freshman Composition; and 6 credits of Directed Reading (ELIT 5900 Directed Reading). Students must take at least two courses in historical periods before 1780 (not in the same period) and at least two in historical periods after 1780 (again, not in the same period). The minimum grade for courses to count towards the PhD is a B; the minimum cumulative GPA in order to maintain good standing is a 3.7, with no more than three grades of a B + or below in a given academic year.

The PhD program in English and American Literature requires competency in one language in addition to English.

Students entering the program with a master's degree in hand normally follow the standard first-year curriculum. At the end of their third semester, the director of graduate studies will review their MA credits taken elsewhere and determine how many credits (no more than 9) may be applied toward the PhD at Washington University. This request will then be reviewed by the Office of Graduate Studies. Although students receiving transfer credit may be able to complete the PhD in fewer than five years, it is to their advantage to enter the program as first-year students, since this approach ensures them four full semesters of study with minimal teaching responsibilities.

Students who wish to complete the dual-degree program in English and Comparative Literature may do so by fulfilling the English department's requirements for dual degrees. More information about the dual degree may be found on the departmental website.

During the first four semesters, credits are earned by taking courses, independent study, and directed reading. Thus, students complete 14 courses (42 credits) total across years one and two, adding WRITING 5990 Seminar: Teaching Freshman Composition (3 credits) in the fall of year three.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-Candidacy Requirements for the PhD in English and American Literature

The status of candidacy for WashU Arts & Sciences doctoral students requires the completion of the pre-candidacy requirements. For the PhD in English and American literature, these pre-candidacy requirements are as follows. By the end of their sixth semester in the program, students must have, at a minimum, achieved the following:

- Completion of required courses (consult the Required Courses section above)
- Completion of 11 elective 3-credit courses at the 5000 level
- Completion of the foreign language requirement (competency in at least one language in addition to English)
- Passing of the major field exam
- Completion of the dissertation prospectus interview
- Submission of the Title, Scope, and Procedure Form

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way

It is assumed that all entering graduate students are aiming for the PhD; the English department does not admit students aiming for a terminal MA degree. The MA is awarded during the course of study when a student has completed 36 credit units, including ELIT 5600 Literary Studies and Graduate Research, usually at the end of the second year. To satisfy the Office of Graduate Studies, Arts & Sciences, requirement of demonstrated excellence, candidates for the MA may also be asked to submit a graded seminar essay (or the equivalent) for review by the English Graduate Committee.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Professional development in the teaching of literature and the teaching of composition is an essential component of a PhD in English Literature. Learning how to convey the principles and practices of successful critical analysis and communication is intricately tied to the larger project of training as a literary scholar. Formal support in preparing doctoral students for academic careers as English professors is one aim of our teacher preparation, but not the only aim. Our approach to teacher preparation readies graduate students for long-term engagement in education, communication, and scholarship, both within and beyond academia.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Students are required to complete two Preparatory Engagement activities:

1. Center for Teaching and Learning Teaching Orientation (Summer after Year 2)
2. Departmental Pedagogy Practicum (begins Summer Year 3 and continues throughout Year 4)

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

English has both 10- and 15-unit AI assignments: AI at 10 units and Writing Intensive AI at 15 units. Students can complete between one and four engagements for a range of 10 to 60 MER units. The number of engagements completed will depend on their Mentored Independent Teaching assignments.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

English requires students to engage in MIT two times during their program. An MIT experience will count for 20 MER units. Students can engage in MIT experiences up to four total times.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

English allows students to take 0 to 3 MPEs, which will be approved by the Director of Graduate Studies in consultation with the Graduate Committee and the Office of Graduate Studies.

A wide variety of MPEs are available, including (but not limited to) the following:

- Undertaking an unpaid internship in a related nonprofit or business, museum, gallery, publisher, and/or publication;
- Serving in the library's Writing Center, Center for Career Engagement, Program in Public Scholarship, Center for Literary Arts, or other student service roles on campus; and
- Assisting with the editing of a special issue of a journal or book collection.



Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

English requires students to complete 80 to 115 MER units with the following guidance:

- One AI experience is required either for 10 MER units (ASGS 8010 MTE - Assistant in Instruction Experience) or 15 MER units (ASGS 8015 MTE - Assistant in Instruction Experience). No more than four engagements may be completed for a total of 10 to 60 MER units.
- Two MIT experiences are required at 20 MER units each (ASGS 8020 MTE - Mentored Independent Teaching Experience). No more than four MITs may be taken.
- MPes are optional and can be completed for 20 MER units each (ASGS 8120 MTE - Mentored Professional Experience). No more than three MPes can be taken.

Some students will finish their requirement as early as the Fall of Year 4; others will finish in the Spring of Year 4. Each student should work with their faculty mentor and the Director of Graduate Studies to plan their pathway.

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #2

ASGS 8010	Take one time
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #3

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take one time

Pathway #4

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take two times

Pathway #5

ASGS 8010	Take one time
ASGS 8020	Take four times

Pathway #6

ASGS 8010	Take two times
ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #7

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take two times

Pathway #8

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #9

ASGS 8010	Take three times
ASGS 8015	Take one time
ASGS 8020	Take two times

Pathway #10

ASGS 8010	Take three times
ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #11

ASGS 8010	Take four times
ASGS 8020	Take two times

Pathway #12

ASGS 8010	Take four times
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #13

ASGS 8010	Take three times
ASGS 8015	Take one time
ASGS 8020	Take three times

Pathway #14

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take three times

Pathway #15

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take three times

Pathway #16

ASGS 8015	Take four times
ASGS 8020	Take two times

Pathway #17

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #18

ASGS 8010	Take three times
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #19

ASGS 8010	Take three times
ASGS 8020	Take three times

Pathway #20

ASGS 8010	Take three times
ASGS 8020	Take four times

Pathway #21

ASGS 8015	Take one time
ASGS 8020	Take four times

Pathway #22

ASGS 8015	Take two times
ASGS 8020	Take three times

Pathway #23

ASGS 8015	Take two times
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #24

ASGS 8015	Take one time
ASGS 8020	Take three times
ASGS 8120	Take one time

Pathway #25

ASGS 8015	Take two times
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #26

ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take three times

English and Comparative Literature, PhD

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 Website: <http://english.artsci.wustl.edu/graduate>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.



For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 45
- **Degree Length:** 5 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course — ASGS 9000 Full-Time Graduate Research/Study — that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B is required for coursework to count toward the degree.

PhD in English and Comparative Literature

The MA/PhD program in English at Washington University in St. Louis is a five-year course of study leading to a doctorate in English and American Literature or in English and Comparative Literature. All English graduate students take a minimum of 10 elective 3-credit courses at the 5000 level, along with three compulsory classes: ELIT 5600 Literary Studies and Graduate Research, WRITING 5990 Seminar: Teaching Freshman Composition, and COMPLITTHT 5200 Introduction to Comparative Literature. Students also take 6 credits of directed reading. This is a total of 15 classes. The elective courses include three 5000-level core courses in Comparative Literature, each one taken in a different broader field: Transcultural Studies; Translation Studies; Literature, Politics, and Society; and Media Ecologies. Students must take at least two courses in historical periods before 1780 (not in the same period) and at least two in historical periods after 1780 (again, not in the same period). The minimum grade for courses to count toward the PhD is a B; the minimum cumulative GPA in order to maintain good standing is a 3.7, with no more than three grades of B+ or below in a given academic year.

The PhD program in English and Comparative Literature requires competency in one language in addition to English.

Students entering the program with a master's degree in hand normally follow the standard first-year curriculum. At the end of their third semester, the director of graduate studies will review their MA credits taken elsewhere and determine how many credits (no more than 9) may be applied toward the PhD at Washington University. This request will then be reviewed by the Office of Graduate Studies. Although students receiving transfer credit may be able to complete the PhD in fewer than five years, it is to their advantage to enter the program as first-year students, since this approach ensures them four full semesters of study with minimal teaching responsibilities.

During the first four semesters, credits are earned by taking courses, independent study, and directed reading. More precisely, students complete 14 courses (42 credits) total across years one and two. In the fall of year three, they add WRITING 5990 Seminar: Teaching Freshman Composition (3 credits).

Required Courses

Code	Title	Units
COMPLITTHT 5200	Introduction to Comparative Literature	3
ELIT 5600	Literary Studies and Graduate Research	3
ELIT 5900	Directed Reading	6
WRITING 5990	Seminar: Teaching Freshman Composition	3

Course Requirements

Students must complete four courses comprising the Comparative Literature core requirement, including COMPLITTHT 5200 Introduction to Comparative Literature and three additional courses distributed among designated categories (refer to the PhD in Comparative Literature (p. 167) for the listing of designated categories).

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Comparative Literature dual PhD degree students will take the comprehensive examinations required in English. At least one of these examinations must entail a comparatist element; this element is to be identified and negotiated with the examination committee, which will include at least one faculty member representing Comparative Literature.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams;

completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy Requirements for the PhD in English and Comparative Literature

The status of candidacy for WashU Arts & Sciences doctoral students requires the completion of the pre-candidacy requirements. For the PhD in English and American literature, these pre-candidacy requirements are as follows. By the end of their sixth semester in the program, students must have, at a minimum, achieved the following:

- Completion of required courses (consult the Required Courses section above)
- Completion of 10 elective 3-credit courses at the 5000 level, including one course each from three of the following broad fields: Transcultural Studies; Translation Studies; Literature, Politics, and Society; and Media Ecologies
- Completion of the foreign language requirement (competency in at least one language in addition to English)
- Passing of the major field exam
- Completion of the dissertation prospectus interview
- Submission of the Title, Scope, and Procedure Form

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

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The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

The dissertation committee should include at least one faculty member representing Comparative Literature. The dissertation itself should, in its theoretical grounding, approach, transnational or transcultural scope, and/or interdisciplinarity, speak to the field of Comparative Literature as currently constituted.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way

It is assumed that all entering graduate students are aiming for the PhD; the English department does not admit students aiming for a terminal MA degree. The MA is awarded during the course of study when a student has completed 36 credit units, including ELIT 5600 Literary Studies and Graduate Research, usually at the end of the second year. To satisfy the Office of Graduate Studies, Arts & Sciences, requirement of demonstrated excellence, candidates for the MA may also be asked to submit a graded seminar essay (or the equivalent) for review by the English Graduate Committee.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Professional development in the teaching of literature and the teaching of composition is an essential component of a PhD in English Literature. Learning how to convey the principles and practices of successful critical analysis and communication is intricately tied to the larger project of training as a literary scholar. Formal support in preparing doctoral students for academic careers as English professors is one aim of our teacher preparation, but not the only aim. Our approach to teacher preparation readies graduate students for long-term engagement in education, communication, and scholarship, both within and beyond academia.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Students are required to complete two Preparatory Engagement activities:

1. Center for Teaching and Learning Teaching Orientation (Summer after Year 2)
2. Departmental Pedagogy Practicum (begins Summer Year 3 and continues throughout Year 4)

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

English has both 10- and 15-unit AI assignments: AI at 10 units and Writing Intensive AI at 15 units. Students can complete between one and four engagements for a range of 10 to 60 MER units. The number of engagements completed will depend on their Mentored Independent Teaching assignments.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

English requires students to engage in MIT two times during their program. An MIT experience will count for 20 MER units. Students can engage in MIT experiences up to four total times.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration

Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

English allows students to take 0 to 3 MPEs, which will be approved by the Director of Graduate Studies in consultation with the Graduate Committee and the Office of Graduate Studies.

A wide variety of MPEs are available, including (but not limited to) the following:

- Undertaking an unpaid internship in a related nonprofit or business, museum, gallery, publisher, and/or publication;
- Serving in the library's Writing Center, Center for Career Engagement, Program in Public Scholarship, Center for Literary Arts, or other student service roles on campus; and
- Assisting with the editing of a special issue of a journal or book collection.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

English requires students to complete 80 to 115 MER units with the following guidance:

- One AI experience is required either for 10 MER units (ASGS 8010 MTE - Assistant in Instruction Experience) or 15 MER units (ASGS 8015 MTE - Assistant in Instruction Experience). No more than four engagements may be completed for a total of 10 to 60 MER units.
- Two MIT experiences are required at 20 MER units each (ASGS 8020 MTE - Mentored Independent Teaching Experience). No more than four MITs may be taken.
- MPEs are optional and can be completed for 20 MER units each (ASGS 8120 MTE - Mentored Professional Experience). No more than three MPES can be taken.

Some students will finish their requirement as early as the Fall of Year 4; others will finish in the Spring of Year 4. Each student should work with their faculty mentor and the Director of Graduate Studies to plan their pathway.

Pathway #1

ASGS 8010	Take one time
ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time



Pathway #2

ASGS 8010	Take one time
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #3

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take one time

Pathway #4

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take two times

Pathway #5

ASGS 8010	Take one time
ASGS 8020	Take four times

Pathway #6

ASGS 8010	Take two times
ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #7

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take two times

Pathway #8

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #9

ASGS 8010	Take three times
ASGS 8015	Take one time
ASGS 8020	Take two times

Pathway #10

ASGS 8010	Take three times
ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #11

ASGS 8010	Take four times
ASGS 8020	Take two times

Pathway #12

ASGS 8010	Take four times
ASGS 8015	Take two times
ASGS 8020	Take one time

Pathway #13

ASGS 8010	Take three times
ASGS 8015	Take one time
ASGS 8020	Take three times

Pathway #14

ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8020	Take three times

Pathway #15

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take three times

Pathway #16

ASGS 8015	Take four times
ASGS 8020	Take two times

Pathway #17

ASGS 8010	Take one time
ASGS 8015	Take three times
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #18

ASGS 8010	Take three times
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #19

ASGS 8010	Take three times
ASGS 8020	Take three times

Pathway #20

ASGS 8010	Take three times
ASGS 8020	Take four times

Pathway #21

ASGS 8015	Take one time
ASGS 8020	Take four times

Pathway #22

ASGS 8015	Take two times
ASGS 8020	Take three times

Pathway #23

ASGS 8015	Take two times
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #24

ASGS 8015	Take one time
ASGS 8020	Take three times
ASGS 8120	Take one time

Pathway #25

ASGS 8015	Take two times
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #26

ASGS 8015	Take one time
ASGS 8020	Take two times
ASGS 8120	Take three times

Writing, MFA

Contact: Rhiannon Amato
 Phone: 314-935-5190
 Email: amator@wustl.edu
 Website: <http://english.artsci.wustl.edu/graduate>

Degree Requirements

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 42
- **Degree Length:** Four semesters/two years
 - Students are expected to be enrolled in 12 graduate credit units (6 of which consist of the graduate workshop in their chosen genre for 3 credits and a co-requisite independent study for the additional 3 credits) during each semester of their first year. Students are expected to be enrolled in 9 graduate credit units (6 of which consist of the graduate workshop in their chosen genre for 3 credits and a co-requisite independent study for the additional 3 credits) during each semester of their second year.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B is required for coursework to count toward the degree. Students must maintain a minimum 3.0 cumulative GPA.

Required Courses

Each semester, Writing students are required to enroll in the Graduate Workshop for their genre.



Code	Title	Units
WRITING 5800	MFA Independent Study	3
WRITING 5801	MFA Fiction Workshop	3
WRITING 5802	MFA Poetry Workshop	3
WRITING 5803	MFA Nonfiction Workshop	3

Mentored Experience Requirements

MFA in Writing students at Washington University must complete a department-defined Mentored Experience. The Mentored Experience Requirement is a degree requirement for MFA in Writing students that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. The Mentored Experience Implementation Plans outline how students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Eligible students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

Thesis Requirements

The required work for the MFA culminates in a thesis, which may take different forms but is usually a volume (or most of a volume) of poems, stories, or essays; a novel (or most of a novel); or a memoir or other long-form creative nonfiction work (or most of one).

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

Mentored Experience Implementation Plan

As part of their degree requirements, Writing MFA students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for Writing MFA students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as *MERs*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Our MFA students learn through mentorship and teaching to gain valuable experience as instructors in the creative writing classroom. MER in the MFA Program of the English Department provides pedagogical training in creative writing workshops and best classroom practices, classroom observation, and in classroom experience. MFA students are required to have two Mentored Independent Teaching (MIT) engagements instructing a 2000-level creative writing workshop in fiction, poetry, or creative nonfiction, depending on the student's particular track in the program.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

- During the fall and spring of their first year, students will observe 2000-level courses in their genre taught by second-year MFA students.
- Students are required to take four pedagogy workshops in the spring of their first year in the MFA. These tend to take place after the last week of classes.
- Students are required to take a one-day pedagogy seminar in August, just before they begin their MIT in the fall of their second year.

Mentored Teaching Experiences (MTEs)

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

MIT begins in the spring of the first year with a required one-week pedagogy workshop during which students will draft a syllabus, compile reading lists and exercises, learn about university policies and resources, and participate in mock-workshops, among other activities designed to help prepare to teach their own sections of a 2000-level undergraduate creative writing workshop both semesters during the second year. Students teach in their own genre. Classes meet twice a week for an hour and twenty minutes and enrollment is limited to 12. During the second year, students will receive mentorship and support for their teaching from faculty and the director.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

MFA in Writing students are required to take two MITs at 20 MER units each.

ASGS 8020	Take two times

Film and Media Studies

The program in Film and Media Studies (FMS) provides students who are interested in the history, criticism, and theories of moving-image-based visual culture from the 19th through the 21st centuries an opportunity to extend their formal intellectual development and to explore film and media as evolving global phenomena. The **Certificate** and the **Master's degree in FMS** advance a student's scholarly understanding of all forms of the moving image and their artistic, cultural, industrial, philosophical, political, and social implications.

The Certificate is by application and is open to PhD students in other academic units in Arts & Sciences. It consists of 15 units of FILM courses; 6 units of the Certificate may be counted in the student's PhD requirements. The Master's degree emphasizes multiple approaches of academic study that may lead to curating, researching, teaching and other professional activities centered on film and other moving image media.

Students already enrolled at Washington University with a major in FMS may wish to consider the Master's program as part of an accelerated BA/Master's option. Washington University students who are admitted in the combined BA/Master's program may have up to 9 units of FMS course credit at the 4000 level considered for application to the Master of Arts (MA) degree requirements. Students who are currently enrolled as undergraduates at Washington University and who are seeking the combined BA/Master's degree should use the standard application form of the Office of Graduate Studies, Arts & Sciences, to apply.

Students applying to the FMS Master's program from outside of the university should follow the standard application procedures of the Office of Graduate Studies, Arts & Sciences (available on the Application Process webpage). Graduate Record Exam scores that indicate an aptitude for graduate study are required, and applicants will also need to supply strong letters of recommendation from three instructors who can speak to the applicant's academic skills relevant to graduate study in FMS. Applicants who have completed an undergraduate degree and who show outstanding promise in writing about film and media but who do not have a formal background in film/media studies may also be admitted. All applicants to the Master's program in FMS should have a strong academic foundation in critical writing and thinking. At least one writing sample of no less than 3,000 words is required, and the applicant must also compose a letter of approximately 500 words describing their interest in FMS and how their intellectual background has prepared them for graduate study in FMS.

All applicants to the Certificate, BA/Master's, and Master's degree programs in FMS are welcome to consult with the director of graduate studies about the application process.

Contact:	Pat Harris
Phone:	314-935-4056
Email:	fms@wustl.edu
Website:	https://fms.wustl.edu/graduate

Faculty

Director

Colin Burnett

Associate Professor

PhD, University of Wisconsin-Madison

History of French and francophone film style and culture; James Bond and serial/transmedia storytelling; transnational trends in art cinema storytelling; historiography of style in film studies and art history; philosophy and film studies



Director of Graduate Studies

John Powers

Assistant Professor
PhD, University of Wisconsin-Madison
Experimental film and video; moving image media technologies;
U.S. film history; critical media arts practices; film and media theory;
documentary film and video

Director of Undergraduate Studies

James Fleury

Senior Lecturer
PhD, University of California, Los Angeles
Media industries; video games; production cultures; media franchises

Department Faculty

Ian Bogost

Barbara and David Thomas Distinguished Professor
PhD, University of California, Los Angeles
Media studies; video games; new media

Richard Chapman

Senior Lecturer
Film production; screenwriting; television production

Jianqing Chen

Assistant Professor
PhD, University of California, Berkeley
Transnational Chinese film & media; digital media; post-socialism;
global capitalism; media and environment; feminist theory

Reem Hilu

Assistant Professor
PhD, Northwestern University
Digital media; game history; feminist media studies; television history;
media and technology

Deirdre Maitre

Senior Lecturer and resident filmmaker

Raven Maragh-Lloyd

Associate Professor
PhD, University of Iowa
Critical digital media; black online publics; cultural studies; algorithmic culture

Oscar Moralde

Visiting Lecturer

William Paul

Professor Emeritus
PhD, Columbia University

Gaylyn Studlar

Professor Emeritus
PhD, University of Southern California
Feminist film theory, genre studies, Hollywood cinema; stardom;
orientalism

Diane Wei Lewis

Associate Professor
PhD, University of Chicago
Japanese cinema; early and silent cinema; mass culture and
modernity; media and gender

Affiliates

Todd Decker

Paul Tietjens Professor of Music
PhD, University of Michigan
Film music and musicals; The Broadway Musical; popular music; digital
humanities; Domenico Scarlatti

Rebecca Wanzo

Chair and Professor of Women, Gender, and Sexuality Studies
PhD, Duke University
African American literature history and culture; theories of affect;
popular culture; critical race theory; feminist theory

Jeffrey M. Zacks

Chair and Professor of Psychological & Brain Sciences
Edgar James Swift Professor in Arts & Sciences
Professor of Radiology
PhD, Stanford University
Perception, memory, movies, and reading in the mind and the brain—
including brains that are developing, aging, and disordered

Degree Requirements

- Film and Media Studies, Graduate Certificate (p. 288)
- Film and Media Studies, Accelerated BA/MA (p. 289)
- Film and Media Studies, MA (p. 291)

Courses

FILM 5000 Independent Study

This course is intended for students who wish to pursue areas of study not available within the standard curriculum. In order to enroll for this course, students must have a faculty adviser and submit a contract outlining the work for the course to the Film and Media Studies office. Please consult the Program guidelines governing independent study work. Opportunities for Independent Study are available to all undergraduate and graduate students working toward a degree in Arts and Sciences. Registration in an Independent Study requires sponsorship by a faculty member and approval of the Program Director. An Independent Study Proposal form can be obtained from the Film and Media Studies Office. All proposals for Film 500 have to be submitted to the FMS main office no later than November 1 for spring semester enrollment and April 1 for Film 500 to be taken in the fall semester. Approval is not automatic. Credit 3 units.

Typical periods offered: Fall, Spring

FILM 5007 The 007 Saga: James Bond and the Modern Media Franchise

What is a franchise, and what approaches have scholars used to study the franchise as a modern cultural and commercial form? This course explores the phenomenon of the modern media franchise in light of the 007 saga: the stories of James Bond as they have proliferated in various media since the 1950s, including the Ian Fleming novels, television, comics, film, games, and young adult and fan fiction (including slash fiction). The 007 saga presents an opportunity to re-examine available ways of conceiving the franchise, from transmedia storytelling to media mixing, and it emphasizes the importance of scholarly models that can account for a decentralized creative labor. Throughout the history of Bond fiction, authorized and unauthorized writers have generated what now amounts to a threaded storytelling experience with pleasures that overlap with -- but are distinct from -- those of centrally planned media phenomena, like the Marvel Cinematic Universe. Note: Admission by waitlist only. Graduate students and advanced undergraduate majors in Film and Media Studies will have priority. Required screenings.

Credit 3 units.

Typical periods offered: Spring

FILM 5010 Advanced Moving Image Analysis and Criticism

This course will explore the analytical tools that have served as the foundation for cinematic and televisual academic criticism. The variety of texts, visual and aural, that comprise moving image production will be considered with the aim of determining how textual strategies structure perception. The aim of the course is two-fold: to have students develop analytical skills for dealing with film and video texts, but also to see how these have been deployed in a multiplicity of approaches/applications offered by academic film criticism. There will be regular screenings to provide the material for analysis, as well as readings to offer a variety of critical models. REQUIRED SCREENINGS:

Credit 3 units.

Typical periods offered: Fall, Spring

FILM 5030 Critical Approaches to Tech Solutions

This course introduces students to theories and methods used in the cultural analysis of emerging technologies with the aim of promoting a more just and equitable approach to technology design. In particular, it surveys the humanistic scholarship on digital technology and society, with a focus on debates surrounding technological problem-solving. Topics covered include: methods and issues in history of technology, tech solutionism, digital citizenship and community formation, technoableism, information literacy, and more. Through the research and writing methods taught in this course, students acquire the necessary preparation for graduate electives in the humanities and humanistic social sciences.

Credit 3 units.

Typical periods offered: Fall

FILM 5100 Graduate Practicum in Film & Media Studies

The practicum in Film & Media Studies seeks to make our graduate students more competitive in the job market. It consists of professional experience that brings to bear academic knowledge and skills associated with the graduate study of moving image media (film, television, digital). The practicum may take a number of forms, but in every case, the experience must be planned in a way that contributes to the student's professional development. It might consist of work curating films for a screening or mini-festival accompanied by screening notes or other activities that enhance the academic value of the event. The student might organize a reading group or a scholarly symposium or lecture series to further the understanding

of a particular aspect of the moving image on campus. The practicum may also consist of archival, or curatorial work in forms of the moving image at an archive, museum, or other non-profit organization (such as the St. Louis International Film Festival). The student might also pursue a film/media-centered oral history project or develop a film/media-centered blog or engage in other forms of writing that have a public presence. Students may initiate other projects, but any practicum requires a faculty mentor and in circumstances in which there is a collaborating organization, a letter of endorsement of the practicum from the student's on-site supervisor. Every student presents a written proposal/plan for any practicum to the DGS and to the faculty mentor/advisor. Both faculty must give permission to the plan and determine the appropriate number of credit hours (variable 1 to 3). Students may sign up for the practicum more than once to satisfy the 3 credits required in this area for the FMS master's degree; however, only one practicum should be pursued in a given semester. If there is a site supervisor, she/he must provide a letter upon completion of the practicum detailing the student's work and its quality. The student must provide a brief narrative (2 to 5 pages) detailing how the practicum served as a learning experience. The faculty advisor will award the grade for the practicum.

Credit 3 units.

Typical periods offered: Fall, Spring, Summer

FILM 5404 Cultural Analysis of Social Media Algorithms

Social media platforms like TikTok, X (previously Twitter), and Facebook use algorithms—a set of programmed rules that determine what, when, and how viewers engage with media online—to bolster profits, optimize the user experience, distinguish themselves from the competition, among other reasons. A quick search of the term algorithm on most search engines yields results as far reaching as 'how to' tutorials on TikTok's For You Page, guides on coding for beginners, and everything in between. Further, while most platforms' algorithms are proprietary and 'black boxed', the ways that we as users think about and perceive of them shapes at least a few things: (i) the content we get online; (ii) our relationship with technology, more broadly; and (iii) our politics and views that become emboldened and/or challenged online. This class will take up a cultural and media studies approach to algorithms to ask: what social, political, and economic factors influence the way that people engage with technology, and algorithms specifically? How do users differently respond to algorithms and what do those differences tell us about the changing relationship between users and technology? What is the relationship between polarization and online personalization and how can media studies intervene in this area? Students will gain a better understanding of personalization algorithms and how culture intersects with the undercurrents of any technology, past, present, and future.

Credit 3 units.

FILM 5406 Media Fandom

This course explores the diverse ways individuals engage with, transform, and resist media texts through fandom. Students will examine the evolution of media fandom discourse and fan studies, tracing its development from early work on gender and sexuality to contemporary research addressing race, nationality, and transnational fandoms. The course investigates the unique practices of a range of fan communities, including cult, mainstream, and genre-specific fandoms. Key topics include transformative works, the dynamics of industry-fan relationships, gatekeeping within fan communities, and the effects of fan activism. Assignments emphasize the development and application of ethical fan studies research practices. Through readings, case studies, and analysis of fan-created content, students will gain a deeper understanding of media fandom as a site of cultural production, negotiation, and identity formation.

Credit 3 units.

Typical periods offered: Fall

FILM 5419 Theories of Mass Media

This course explores theories of the mass media with an emphasis on television as well as its convergences with other media and computer technologies. It starts by examining theories that posit the media as instruments of societal maintenance or transformation and then examines the ways in which various theorists have refined or rejected elements of these theories in a quest for both specificity and complexity. In particular, the course examines media and cultural studies' attempts to synthesize critical paradigms ranging from political economy to semiotics to feminism. The course concludes with an examination of the challenges and opportunities posed to theorizations of the mass media by contemporary circumstances such as media conglomeration, niche marketing and micro-casting, and global flows of information, capital, and people. REQUIRED SCREENING: [day, time].

Credit 3 units. A&S IQ: HUM BU: BA, HUM EN: H

Typical periods offered: Fall

FILM 5420 Film Theory

This course is an introduction to both classical and contemporary film theory. Beginning with the earliest attempts to treat cinema as a new and unique art form, the course will initially review the various ways in which film theory attempted to define cinema in terms of its most essential properties. The course will then examine more contemporary developments within film theory, more specifically its attempt to incorporate the insights of other critical and analytical paradigms, such as semiotics, psychoanalysis, feminism, queer theory, and postmodernism. Throughout the course, we will consider questions regarding the ontology of cinema, its relation to spectators, and the various ways in which its formal properties create meaning. Readings for the course will include the major works of Sergei Eisenstein, Andre Bazin, Christian Metz, Laura Mulvey, and Fredric Jameson. Required screenings.

Credit 3 units. A&S IQ: HUM, WI Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5421 Film Historiography

This course is a seminar on the writing of film history for advanced students. Through an engagement with the historiographical writings of scholars, such as Dominic LaCapra, Hayden White, and Michel Foucault, students will gain an understanding of various genres of film historical writing, an appreciation for the kinds of research that film historians do, and a familiarity with the ways in which film historians delimit their field of study, form research questions, and develop hypotheses. In addition to reading and classroom discussions, students will be expected to write a fairly lengthy paper (17-20 pages) that involves original historical research and the close examination of trade press, professional journals, fan magazines, and news articles. As preparatory assignments leading up to the final project, students will also prepare project descriptions, bibliographies, and outlines that will be shared and discussed in a workshop format.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

FILM 5422 Film Stardom, Performance, and Fan Culture

This course focuses the Hollywood star system. We will explore stars in relation to celebrity and consumerism, especially how stardom is created by a system that seeks to create effects in film viewers whether conceived as audiences, fans, or spectators. We will examine the performance element of stardom and its relationship to genre, style, and changing film technology. Also of concern will be how stars and the discursive construction of stardom intersect with gender representation, race, ideology, sexuality, age, disability, nationality, and other points of theoretical interest to and historical inquiry

in contemporary film studies. While emphasis will be placed on mainstream commercial U.S. cinema, students are encouraged to pursue questions beyond this framework within their own research. Required screenings.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: BA, HUM EN: H

FILM 5423 Histories of Media Convergence

Entertainment and communications forms combine and blend, and they have done so across millennia. However, the phenomenon of media convergence has taken on a special salience over the last one-and-a-half-centuries, as exemplified by the growing intermixture of film, radio, television, gaming, and the internet. In particular, critics, consumers, politicians, and producers used convergence as structuring principle in understanding, regulating, and planning for the future of media culture. This course engages with contemporary worries and enthusiasms about convergence by considering the specific conditions in which the phenomenon has been understood and practiced.

Tracing a historical arc through the Twentieth Century, we will first examine convergences of radio and film, film and music publishing, television and film exhibition, and disparate corporate entities as basis for understanding more recent media combinations. Building on that foundation, the majority of the course will consist of case studies of media convergence since 1980, considering it in terms of industry, technology, regulation, and audiences. These case studies will also provide students with a survey of and inquiry into questions of historiographic theory and method. Note: This course satisfies the history & historiography requirement for the FMS Graduate Certificate. Required screenings.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

FILM 5424 Broadcasting Equality: Radio, Television and Social Change in Postwar America

The period between World War II and the 1970s was one of profound cultural, political, and demographic shifts that brought the problems of ethno-religious and racial prejudice to the forefront of U.S. national consciousness. Religious leaders, secular social activists, media industry professionals, and African American civil rights leaders often worked together to combat intolerance, bigotry, and inequality. What did these activists achieve in their attempts to deploy U.S. broadcast media in what they sometimes referred to as propaganda against prejudice? How did this activism relate to the institutions of broadcast media, including governmental agencies, national networks and local broadcasters? What was television and radio's impact on the Civil Rights Movement of the 1950s and 1960s? In addressing these questions, we will consider a wide range of media: public service programming as well as commercially produced series, specials, network news and documentaries produced between the 1940s and the 1970s. Programs considered will include *A New World 'A Coming*, *Amos 'n Andy*, *American Bandstand*, *NBC White Papers: Sit In*, *Sanford and Son*, *Eyes on the Prize*, and *Soul Train*, among many others. Required screenings.

Credit 3 units.

Typical periods offered: Spring

FILM 5425 Seminar in Video Games: Video Games, Gender and Sexuality

This seminar considers different topics that illuminate the relationship of video games to culture. Topics vary by semester. The course may have a variety of analytical frames: gender and sexuality, interactivity and reception, narrative and aesthetic theory, industrial or technological history. Prerequisite is graduate status or completion of a 300-level FMS or WGSS course and permission of the instructor. Credit 3 units. REQUIRED LAB/SCREENING TIME weekly.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

FILM 5426 Media Archives: Political and Technological Interventions

Media archives structure our knowledge of film and TV's past. They help determine what survives of today's media productions into the future. While that gatekeeping work might seem opaque from the outside, an array of archivists and curators, both professional and amateur, are reevaluating what gets saved to make the historical record more inclusive and complete. This course will introduce you to the debates and new technologies that are transforming moving image archiving. It mixes readings and discussions of scholarly works and professional white papers with hands-on activities to show how the seemingly apolitical labor of archivists, like cataloging and reference, reflects ideologies of professionalism, gender, class, and race. While introducing you to the current best practices in digitizing media for long-term preservation, it will also ask you to analyze how those professional standards came into being. This class is made possible by WashU Libraries Film & Media Archive's (FMA) collections and legacy technologies, as well as its staff's time and expertise. As such, we will focus on areas of moving image archiving that the FMA specializes in including nontheatrical film, the 16mm film format, social justice documentaries, and Black media production. In this course, students will gain the following:

- a knowledge of archival practices;
- an introduction to the concepts of archival power and efforts to democratize the preservation of our shared cultural heritage;
- an overview of moving image archiving profession including the range of institutions, collections, and jobs in the field;
- an understanding of legacy media formats and playback technologies;
- hands-on experience repairing and digitizing film and video; and
- an introduction to digital preservation strategies and open-source tools.

Credit 3 units.

Typical periods offered: Spring

FILM 5427 Gaming Communities: Audience Discourses and Production Cultures

In this course, we will investigate the role that paratextual fields such as criticism, marketing, and fandom play in shaping media culture, with video games and game cultures as our focus. We will study how people talk about games: where do they talk about them? How do they recognize each other as participating in the same cultural activity (or create boundaries and distinctions between groups)? How does this discourse become more than just "talk" and affect other audiences and creators? Historical examples focusing on game audiences, game creators, and streaming and online culture will be supplemented with theories of media discourse to let students develop their own research projects. Through reading key books in game studies and game journalism, students will also learn the methods and goals of humanities research and how it can make a difference in the communities they study. Students in this course do not need previous experience with video games, but only a willingness to explore both online and offline "sites of discourse." This course has no prerequisites. Required weekly screenings.

Credit 3 units.

Typical periods offered: Spring

FILM 5429 Mass Culture and Modern Media: Fantasylands: Cinema, Spectatorship, and the Spatial Imagination

This course provides an introduction to cultural theories that are pertinent to the study of cinema, mass culture, and modernity. Rotating topics will highlight different aspects of cinema's relationship to popular culture, urbanism, modern technology, capitalism, and mass media. Students will encounter key theorists for understanding modern life and subjectivity, such as Marx, Freud, Foucault, Benjamin, and Raymond Williams. In addition, the course introduces core readings in the history and cultural theory of early cinema, which may include work by Miriam Hansen, Anne Friedberg, Tom Gunning, Charles Musser, Giuliana Bruno, Jacqueline Stewart, and others. Topics may include cinema and modernity, cinema and mass culture, cinema and leisure, cinema and urbanism, and cinema and consumer culture. Credit 3 units. A&S IQ: HUM Arch: HUM Art: CPSC, HUM BU: HUM EN: H

FILM 5431 Renegades and Radicals: The Japanese New Wave

In 1960, the major studio Shochiku promoted a new crop of directors as the Japanese New Wave in response to declining theater attendance, a booming youth culture, and the international success of the French Nouvelle Vague. This course provides an introduction to those iconoclastic filmmakers, who went on to break with major studios and revolutionize oppositional filmmaking in Japan. We will analyze the challenging politics and aesthetics of these confrontational films for what they tell us about Japan's modern history and cinema. The films provoke as well as entertain, providing trenchant (sometimes absurd) commentaries on postwar Japanese society and its transformations. Themes include: the legacy of WWII and Japanese imperialism; the student movement; juvenile delinquency; sexual liberation; and Tokyo subcultures. Directors include: Oshima Nagisa, Shinoda Masahiro, Terayama Shuji, Masumura Yasuzo, Suzuki Seijun, Matsumoto Toshio, and others. No knowledge of Japanese necessary. Credit 3 units. Mandatory weekly screening:

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Spring

FILM 5432 Global Art Cinema

How do art films tell stories? The dominant storytelling genre of the contemporary festival circuit, the art film has since World War Two combined realist and modernist impulses. Influenced by Italian neorealism, art films grant priority to characters from working class, sexual, and other exploited and imperiled minorities. Drawing on the fine arts, literature and music, art films also experiment with modernist themes and formal principles, such as subjectivity, duration, serial structure, denotative ambiguity and reflexivity. This course explores art cinema from a variety of national contexts, analyzing storytelling techniques and themes that challenge the economical and diverting forms associated with mainstream commercial filmmaking. Required Screenings.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Spring

FILM 5439 Clown Princes

Dying is easy, comedy is hard, runs an old theatrical adage. Nevertheless, some of the most popular actors in American film have chosen the hard path by typecasting themselves in comedy, playing repeated variations on the same character. Comedian comedy, representing films that showcase the distinctive skills of great clown-actors, is the central concern of this course. We will analyze how individual comedians rework performance traditions through the distinctive concerns of their time and culture to create idiosyncratic comic personae. We will look at films starring Charles Chaplin, Buster

Keaton, Harold Lloyd, Laurel and Hardy, the Marx Brothers, Jack Benny, Peter Sellers, Jim Carey and Eddie Murphy. Work for the course will require reading in comic theory and analytical essays. Required screenings.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5443 Memory, Tears and Longing: East Asian Melodrama Film

Excessive emotion, unreasonable sacrifice, hidden truth, untimely knowledge, and forbidden desire-the power of melodrama and its moving representations have fueled the popularity of hundreds, if not thousands, of books, plays, and films. Melodrama has variously been defined as a genre, a logic, an affect, and a mode, applied to diverse media, divergent cultural traditions, and different historical contexts. The course provides a survey of East Asian melodrama films-as well as films that challenge conventional definitions of melodrama-by pairing Japanese, Korean, and Chinese-language productions with key critical texts in melodrama studies. We will see classics such as *Tokyo Story*, *Two Stage Sisters*, and *The Housemaid*. We will examine melodrama's complex ties to modernity, tradition, and cultural transformation in East Asia; special emphasis will be placed on representations of the family, historical change, gender, and sexuality. In addition to historical background and film studies concepts, we will also consider a range of approaches for thinking about the aesthetics and politics of emotion. No prerequisites. No prior knowledge of East Asian culture or language necessary. Mandatory weekly scheduled screening.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

FILM 5444 Topics in Chinese Language Cinema

Variable topics associated with the shaping of Chinese-language cinema, whether originating from the PRC, Hong-Kong, or Taiwan. This course may take up themes, directors, film genres, special subjects (such as independent film), formal elements (such as cinematography or sound), or issues (the relationship of film to literature, specific cultural movements or political events). Required Screenings.

Credit 3 units.

Typical periods offered: Spring

FILM 5445 Horror in Japanese Media

Elements of the macabre and horrific have been present in Japanese culture and media since time immemorial. The 11th-century work *The Tale of Genji*, for example, features an elite lady's living ghost killing off her main rivals for the prince's affections. Tales of ghosts, demons, and the supernatural entities known as *yokai* continued to appear in collections of Buddhist didactic and folktale literature of the following centuries, finding renewed popularity in the 17th-19th centuries in the form of *kaidan* or strange tales which were enjoyed as printed works, parlor games, and stage plays. Some of the very first films made at the turn of the 20th century in Japan were about the popular ghosts of yore. Building on this long legacy of fearsome creatures in popular media of times now past, this course will consider selections of Japanese horror media (film, literature, anime, manga, and video games) from the mid-20th to early 21st centuries, highlighting the intertextuality that different media within the horror genre has and how the horror genre itself even bleeds into other genres. Analyzing major figures and themes in each work, this course will explore how Japanese horror -the strange realm home to ghosts with a grudge, misunderstood monsters, and merciless murderers-can function not only as thrilling entertainment but can also reflect Japanese societal and cultural anxieties present in the real world, ranging from the problems that technology may create in a changing world to the threats posed by shifts in traditional family dynamics. Although this course will focus on horror media in the Japanese context, understanding how horror can function to highlight such anxieties will

prepare students to consider the deeper possibilities of horror media in their own respective cultural contexts. All readings will be in English, and visual media will be in Japanese with English subtitles. Required Screenings

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5446 The Israeli-Palestinian Conflict Through Cinema

The Israeli-Palestinian conflict is often considered the longest-running national conflict in the world. The dispute, which started in the early 20th century, attracts much attention more than a hundred year later, stirring intense passions and generating controversial headlines. This course explores the Israeli-Palestinian conflict through Palestinian and Israeli cinema. We examine the ways in which cinema depicts the conflict in the Middle East, starting from the British Mandate to the present day. Adopting a relational history reading, the course examines the treatment, the influences, and the representation of major historical and political events in the region - Israeli independence/Palestinian Nakba (1948), the Six-Day War/Arab Naksa (1967), the Yom Kippur war (1973), the Lebanon War I (1982), the Palestinian uprising Intifada I (1987), the Oslo accords (1993), Intifada II (2000) - in both Israeli and Palestinian films. The course examines the social and historical processes which shape Palestinian and Israeli cinematic narratives, self-representation, the representation of the Other, the relationship to the land, diaspora, national narratives, collective memory, and trauma. This course offers a dialectical cinematic and historic journey from national films to transnational modernist and experimental films, from the collective to the individual, and from hope to despair. Required Screenings:

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5450 American Film Genres

By close examination of three or four specific types of film narratives, this course will explore how genre has functioned in the Hollywood mode of production. Students will gain an understanding of genre both as a critical construct as well as a form created by practical economic concerns, a means of creating extratextual communication between film artist/producers and audience/consumers. Genres for study will be chosen from the western, the gangster film, the horror movie, the musical, screwball comedy, science fiction, the family melodrama, the woman's film, and others. In addition to film showings, there will be readings in genre theory as well as genre analyses of individual films. Required screenings

Credit 3 units. A&S IQ: HUM Art: HUM BU: HUM EN: H

FILM 5451 American Television Genres

Questions of genre are central to any exploration of television's texts, whether they are being analyzed as craft, commerce, or cultural phenomenon. Genre has been used by critics and historians to ascribe social functions to groups of programs and to diagnose cultural preoccupations, while genre has been used industrially to manage expectations among audiences, advertisers, programmers, producers, and creative professionals. Investigating genres ranging from the soap opera to the western, workplace situation comedies to sports, and game shows to cop shows, this course will explore the role of genre in the production, distribution, and reception of American television. Students will gain a critical understanding of genre theory and key arguments about the form and function of television texts and will develop a set of tools for analysis of televisual narrative and style, the social uses and meanings of genre, the institutional practices and presumptions of the American television industry, and the persistence of textual forms and audience formations in the face of structural changes such as deregulation, media convergence, and globalization. Required Screenings.

Credit 3 units. A&S IQ: HUM BU: BA, HUM EN: H

Typical periods offered: Fall

FILM 5452 Advanced Screenwriting

This course is intended for students who have already taken Film Studies 352, Introduction to Screenwriting. Building on past writing experiences, students will explore the demands of writing feature-length screenplays, adaptations, and experimental forms. Particular attention will be paid to the task of rewriting.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5453 Experiential Design for Immersive Media

The term metaverse (originally coined by novelist Neal Stephenson) has recently come into vogue to describe a loose constellation of emerging technologies related to immersive media-particularly virtual, augmented, and mixed reality. In this course, we will explore new forms of creative practice enabled by this ecosystem. Students will analyze a variety of immersive experiences, ranging from 360 films and animations to interactive room scale experiences to multisensory installations, to understand the creative opportunities and challenges offered by these media. Students will then develop their own creative proposals and prototype an XR experience using a combination of 360 camera systems, digital production software, head-mounted displays, and physical and spatial computing elements.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM, VC BU: HUM EN: H

Typical periods offered: Spring

FILM 5454 American Film Melodrama and the Gothic

American film melodrama has been considered both the genre of suffering protagonists, incredible coincidences, and weeping spectators as well as a mode of action, suspense, and in-the-nick-of-time rescues. In this course, we will examine American film melodrama as a dialectic of sentiment and sensation which draws heavily on Gothic tropes of terror, live burial, and haunted internal states. We will trace the origins of film melodrama and the cinematic Gothic to their literary antecedents, the horrors of the French Revolution, and classical and sensational stage melodramas of the nineteenth century. In addition to the 1940s Gothic woman's film cycle, we will excavate the Gothic in the maternal melodrama, the suspense thriller, film noir, domestic melodrama, the slasher film, and the supernatural horror film. Required screenings.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5456 Soundtrack Studies: Music, Voices, Noise

This course considers the interaction of film, sound, and music from the silent era to the present by screening representative films from around the world and exploring current directions in scholarship from the disciplines of film studies and musicology. Topics to be discussed include: historical and critical understandings of the sound track, major film sound theorists (such as Michel Chion), technological shifts (such as synchronized sound, Dolby, and digital surround sound), the uses of Richard Wagner (both his music and his ideas), the relationship between a film genre (noir) and sound and music and the relationship between a musical genre (opera) and film, and the juxtaposition of popular and classical, Western and non-Western musical styles in art cinema. Films to be screened include Meek's Cutoff, Blow Out, Days of Heaven, Sous le toits de Paris, Love Me Tonight, Casablanca, Alien, Apocalypse Now, La cérémonie, Le Cercle rouge, The Pillow Book, The Scent of Green Papaya, and The Bourne Ultimatum. The course is in seminar format. Readings from recent scholarly work on film sound and music will inform class discussions of the films to be screened. Close analysis of how music, sound, and image interact in film making and the film experience lies at the heart of the course. The ability to read music is not required. A primary goal of the course will be the

development of specific listening skills that are useful when working in this area. Targeted writing assignments will ask students to write about film sound and music from a variety of critical and historical perspectives. Required screenings.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

FILM 5457 From Vitaphone to Youtube: Popular Music and the Moving Image

This course considers American popular music as represented in audiovisual media from 1926 to the present. The relationship between the popular music industry (a commercial sphere oriented primarily towards the selling of sheet music and audio recordings) and audiovisual technologies (various screens and formats encountered in changing social and commercial contexts) will be explored along two complementary tracks: popular music performers as presented in performance-centered media and popular music as a narrative topic or resource in feature films. Three related analytical frames will shape our discussions: industrial and technological history (the material conditions for the making and distribution of popular music and moving images) the question of liveness in recorded audiovisual media aesthetics of various popular music styles as translated into audiovisual forms and contexts The course is in seminar format. The ability to read music is not required but students with music reading or transcription skills will be encouraged to draw upon these tools. Prerequisites: graduate status or completion of a 300-level FMS or Music course and permission of the instructor

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5458 Major Film Directors

What does the film director do? In the earliest movies, film directors modeled themselves on their theatrical counterparts: they chiefly focused on how to stage an action in a confined space for a stationary camera that represented an ideal member of the audience. As the camera began to be used to direct audience attention, first through cutting, then through actual movement, the film director evolved from a stager of events to a narrator. By analyzing the work of one or more major film directors, this course will explore the art of film direction. We will learn how film directors may use the camera to narrate a scene, to provide their own distinctive view of the actions playing out on the movie screen. May be repeated for credit with permission of the instructor. Required screenings.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5460 Taboo: Contesting Race, Sexuality and Violence in American

Pushing the envelope or going too far? What is the boundary between films that challenge us and films that offend us? This is a course about films that crossed that boundary, most often by presenting images of race, sexuality and violence, images that could attract audiences as much as they offended moral guardians and courted legal sanctions. Because they were denied the First Amendment protection of free speech by a 1915 Supreme Court decision, movies more than any prior art form were repeatedly subject to various attempts at regulating content by government at federal, state, and even municipal levels. Trying to stave off government control, Hollywood instituted forms of self-regulation, first in a rigid regime of censorship and subsequently in the Ratings system still in use. Because taboo content often means commercial success, Hollywood could nonetheless produce films that pushed the envelope and occasionally crossed over into more transgressive territory. While control of content is a top-down attempt to impose moral norms and standards of behavior on a diverse audience, it also reflects changing standards of acceptable public discourse. That topics once barred from dramatic representation by the Production Code - miscegenation, homosexuality and lower

forms of sexuality, abortion, drug addiction - could eventually find a place in American movies speaks to changes in the culture at large. In trying to understand these cultural changes, this course will explore films that challenged taboos, defied censorship, and caused outrage, ranging from films in the early 20th Century that brought on the first attempts to control film content through to films released under the Ratings system, which has exerted subtler forms of control. Required screenings.

Credit 3 units. A&S IQ: HUM, SC Art: CPSC BU: HUM EN: H

Typical periods offered: Fall

FILM 5465 Theory and Practice of Experimental Film

Filmmaker Stan Brakhage famously wrote the following: Imagine an eye unruly by man-made laws of perspective, an eye unprejudiced by compositional logic, an eye which does not respond to the name of everything but which must know each object encountered in life through an adventure of perception. In this course, we will embark upon our own adventures of perception, examining and producing works of art that challenge our preconceptions of what cinema is or can be. From city symphonies to pop collages, portraiture to handcrafted animation, and ethnography to gender studies, we will explore the multifaceted and transformative avant-garde cinema through the work of its greatest practitioners, contextualize films in relation to aesthetic aspirations (e.g., formalism, opposition, reflexivity, transcendence) and movements in art and cultural theory (e.g., Dadaism, Abstract Expressionism, Pop, Performance Art, Minimalism), and acquire the digital production skills needed to make our own experimental videos. Each week, we will mix the classic with the contemporary to demonstrate the ongoing vitality of -- and make our own contributions to -- this often misunderstood cinematic tradition. Required screenings.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

FILM 5475 Screening the Holocaust

This course surveys the history of Holocaust representation on film, examining a wide range of documentary and fictional works from 1945 to the present day. Discussions will consider a number of key questions, including: What challenges does the Holocaust pose to cinematic representation, and how have filmmakers grappled with them? How have directors worked within and against notions of the Holocaust as unrepresentable, and how have they confronted the challenge of its association with a limited set of highly iconic images? What are the more general ethical and political dimensions of representing the Holocaust onscreen -- its victims as well as its perpetrators, the systematic genocidal violence that characterized it, and the sheer absence of so many dead? We will also probe the changing significance of cinematic representation of the Holocaust, exploring the medium's increasingly memorial function for audiences ever further removed from the historical moment of its occurrence. Screenings may include *The Last Stage*; *Distant Journey*; *Night and Fog*; *Judgment at Nuremberg*; *Shoah*; *Europa, Europa*; *Schindler's List*; *Train of Life*; *The Specialist*; *Photographer*; *A Film Unfinished*. Critical readings by figures such as Giorgio Agamben, Jean Amery, Shoshana Felman, Geoffrey Hartman, Marianne Hirsch, Sidra Israh, Dominick LaCapra, Alison Landsberg, Berel Lang, Michael Rothberg, and James Young. Required screenings

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

FILM 5477 Special Topics in Game Studies and Design

How are games developed? How do the principles and strategies of game development shape the way we play, imagine worlds, construct stories, problem-solve, and interact with others socially and politically? This seminar combines hands-on game design with critical study to intensively explore the medium of digital and/or non-

digital games. The course teaches students both to design games and to situate and scrutinize design choices within salient trends in game criticism, history, and theory. Through this combination of making and study, students will investigate the means and materials of game development as well as the many complex effects games have on gamers, ultimately serving the illuminate how games have become one of the most influential, powerful, and lucrative forms of art and entertainment in the contemporary media landscape. Emphasis will be placed on how game interfaces, mechanisms, puzzles, worlds, and stories draw inspiration from other media and cultural practices while also contributing novel aesthetic problems and solutions to contemporary art and media through their variability, experimentation, and cultural timeliness. Specific topics courses can take various approaches to integrating game design and study. Hands-on experience with game design might be combined with sustained engagement with a specific game or game franchise; with the study of significant political, economic, technological, social, or cultural contexts for games; or with theoretical and analytical approaches to game aesthetics. Students will inform their exploration through key works from game studies scholarship and game development discourse and produce written research or creative projects. Weekly or biweekly media labs and/or screenings are required.

Credit 3 units.

Typical periods offered: Spring

FILM 5478 Topics in Transmedia Franchises

This variable topics course for advanced undergraduate and graduate students is an interdisciplinary seminar on transmedia franchises. In particular, it is recommended for those seeking to understand transmedia storytelling as an artistic, industrial, and cultural practice. As such, this course will bring into conversation various methodologies and perspectives, including film and media scholarship as well as other fields of study in the humanities and social sciences. The goal of this interdisciplinary approach is to illuminate how transmedia franchises have developed since the early 20th century to become the dominant product of the American -- and, increasingly, global -- cultural industries. Foci of this course may include such topics as individual franchises; global transmedia history; the franchise strategies of individual cultural industries (e.g., the Japanese media mix); or representation within franchise texts, production cultures, and fan communities. This course serves as a capstone for Film & Media Studies majors. Weekly or bi-weekly screenings or hands-on media labs are required.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

FILM 5479 Seminar in Interdisciplinary Approaches

This variable topics course is an interdisciplinary seminar on film/media designed for advanced undergraduate and graduate students. In particular, it is recommended for those seeking to understand film/media as a lived experience that takes place within cultural frameworks. As such, this course will bring into conversation various methodologies and perspectives, including film/media scholarship, as well as ones drawn from other fields of study in the humanities, sciences, or social sciences. The goal of this interdisciplinary approach is to illuminate how film/media both elicits and represents human response. The foci of this course may include such topics as violence and film/media, the body and film/media, the cognitive impact of film/media viewing, the relationship of environment to experiencing film/media, or the relationship of culturally specific events or trends to film/media production and reception. This course serves as a capstone for Film & Media Studies majors. Weekly or biweekly screenings or hands-on media labs required.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

FILM 5485 Visualizing Orientalism: Art, Cinema and the Imaginary East 1850-2000

This seminar examines film and modern art within the framework of Orientalism Reading foundational texts by Said, and incorporating theory and historical discourse concerned with race, nationalism, and colonialism, we explore artistic practice in European photography, painting, and decorative arts from 1850 to recent times and European and Hollywood Film. We study how power and desire have been inscribed in western visual culture across the bodies of nations and peoples through conventions such as the harem, the odalisque, the desert, and the mysteries of ancient Egypt. To that end, we will look at artists such as Delacroix, Ingres, Gérôme, Beardsley, and Matisse and will screen films such as *The Sheik*, *The Mummy*, *Salome*, *Cleopatra*, *Pepe le Moko*, *Naked Lunch*, *Shanghai Gesture*, *Thief of Bagdad*, *Princess Tam Tam*, and *The Sheltering Sky*. Subjects include the representation of gender, sexuality, desire, race, and identity as well as the cultural impact of stereotype and exotic spectacle. Students will study methods of visual analysis in film studies and art history. All students must attend film screenings. 3 credits Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H Typical periods offered: Fall

FILM 5505 Travel in Space: Contemporary Cinemas of Taiwan, Hong Kong, and China

The recent phase of intensive urbanization, industrialization, and globalization in Chinese regions has also mobilized multi-directional flows of migrants, tourists, workers and entrepreneurs across geographical boundaries. Moving through space, the voyagers offer changing perspectives to the cinematic mapping of socio-political relationships, histories, and cultures that constitute the identities of places. This course explores contemporary Chinese-language films that imagine trajectories between distant spaces as well as the experiences of new comers in foreign places. We will examine the current wave of travel films in Taiwan, the representation of drifters in Chinese urban films, as well as the imagination of migration in Hong Kong cinema. We will also explore theories that draw connections between movement, space, and cinema. REQUIRED SCREENINGS: TBA Credit 3 units. Typical periods offered: Spring

FILM 5510 Graduate Practicum in Film & Media Studies

The practicum in Film & Media Studies seeks to make our graduate students more competitive in the job market. It consists of professional experience that brings to bear academic knowledge and skills associated with the graduate study of moving image media (film, television, digital). The practicum may take a number of forms, but in every case, the experience must be planned in a way that contributes to the student's professional development. It might consist of work curating films for a screening or mini-festival accompanied by screening notes or other activities that enhance the academic value of the event. The student might organize a reading group or a scholarly symposium or lecture series to further the understanding of a particular aspect of the moving image on campus. The practicum may also consist of archival, or curatorial work in forms of the moving image at an archive, museum, or other non-profit organization (such as the St. Louis International Film Festival). The student might also pursue a film/media-centered oral history project or develop a film/media-centered blog or engage in other forms of writing that have a public presence. Students may initiate other projects, but any practicum requires a faculty mentor and in circumstances in which there is a collaborating organization, a letter of endorsement of the practicum from the student's on-site supervisor. Every student presents a written proposal/plan for any practicum to the DGS and to the faculty mentor/advisor. Both faculty must give permission to the plan and determine the appropriate number of credit hours (variable 1 to 3). Students may sign up for the practicum more than once to satisfy the

3 credits required in this area for the FMS master's degree; however, only one practicum should be pursued in a given semester. If there is a site supervisor, she/he must provide a letter upon completion of the practicum detailing the student's work and its quality. The student must provide a brief narrative (2 to 5 pages) detailing how the practicum served as a learning experience. The faculty advisor will award the grade for the practicum. Credit 3 units.

Film and Media Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** Two semesters
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

Required Courses (9 units)

Code	Title	Units
FILM 5010	Advanced Moving Image Analysis and Criticism	3
FILM 5420	Film Theory	3
FILM 5421	Film Historiography	3
Total Units		9



Electives (6 units)

Students may select any 5000-level FMS courses not already taken to fulfill this requirement, including the following:

Code	Title	Units
FILM 5000	Independent Study	3
FILM 5007	The 007 Saga: James Bond and the Modern Media Franchise	3
FILM 5422	Film Stardom, Performance, and Fan Culture	3
FILM 5424	Broadcasting Equality: Radio, Television and Social Change in Postwar America	3
FILM 5425	Seminar in Video Games: Video Games, Gender and Sexuality	3
FILM 5429	Mass Culture and Modern Media: Fantasylands: Cinema, Spectatorship, and the Spatial Imagination	3
FILM 5430	Topics in Chinese Media Culture: Charting Identity in the Digital Age	3
FILM 5432	Global Art Cinema	3
FILM 5439	Clown Princes	3
FILM 5443	Memory, Tears and Longing: East Asian Melodrama Film	3
FILM 5444	Topics in Chinese Language Cinema	3
FILM 5445	Horror in Japanese Media	3
FILM 5446	The Israeli-Palestinian Conflict Through Cinema	3
FILM 5450	American Film Genres	3
FILM 5451	American Television Genres	3
FILM 5452	Advanced Screenwriting	3
FILM 5453	Experiential Design for Immersive Media	3
FILM 5454	American Film Melodrama and the Gothic	3
FILM 5456	Soundtrack Studies: Music, Voices, Noise	3
FILM 5457	From Vitaphone to Youtube: Popular Music and the Moving Image	3
FILM 5458	Major Film Directors	3
FILM 5460	Taboo: Contesting Race, Sexuality and Violence in American	3
FILM 5465	Theory and Practice of Experimental Film	3
FILM 5475	Screening the Holocaust	3
FILM 5478	Topics in Transmedia Franchises	3
FILM 5479	Seminar in Interdisciplinary Approaches	3
FILM 5485	Visualizing Orientalism: Art, Cinema and the Imaginary East 1850-2000	3

Contact: Pat Harris
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Film and Media Studies, Accelerated BA/MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 (16 from undergrad and 20 during graduate)
- **Degree Length:** Two semesters/one additional year
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade required for a course to count toward the MA is a C.

Students already enrolled at Washington University in St. Louis may wish to consider this program as part of an accelerated BA/MA option. This program is designed to provide students who are interested in the history, criticism, and theories of moving image-based visual culture, from the 19th through the 21st centuries, an opportunity to extend their formal intellectual training and explore film and electronic media as evolving global phenomena. The degree will advance a student's scholarly understanding of all forms of the moving image and their artistic, cultural, industrial, philosophical, political, and social implications. In addition to providing knowledge, the degree will emphasize multiple approaches of academic study of the subject that may lead to curating, researching, teaching, and other professional activities centered on film and other moving image media as key aspects of visual culture centrally implicated in debates about culture and commerce, art and technology, entertainment and ideology.

Students who are spring-graduating seniors at Washington University may apply for this program as a combined BA/MA degree by March 15 to start this program during the subsequent fall semester.

Required Courses (18 units)

Visual Analysis

Students complete the following course (3 units):

Code	Title	Units
FILM 5010	Advanced Moving Image Analysis and Criticism	3

Moving Image Theory

Students complete one of the following courses (3 units):

Code	Title	Units
FILM 5419	Theories of Mass Media	3
FILM 5420	Film Theory	3

Historiography of the Moving Image

Students complete one of the following courses (3 units):

Code	Title	Units
FILM 5421	Film Historiography	3
FILM 5423	Histories of Media Convergence	3

Television & Digital Studies

Students complete any of the following 5000-level courses in television or electronic media (3 units):

Code	Title	Units
EALC 5300	Topics in Chinese Media Culture	3
FILM 5424	Broadcasting Equality: Radio, Television and Social Change in Postwar America	3
FILM 5425	Seminar in Video Games: Video Games, Gender and Sexuality	3
FILM 5451	American Television Genres	3
FILM 5453	Experiential Design for Immersive Media	3
FILM 5457	From Vitaphone to Youtube: Popular Music and the Moving Image	3
FILM 5478	Topics in Transmedia Franchises	3

Cinema and Television Beyond the United States

Students complete any of the following 5000-level national, regional, or transnational cinema or television studies courses offered in FMS (3 units):

Code	Title	Units
EALC 5300	Topics in Chinese Media Culture	3
FILM 5431	Renegades and Radicals: The Japanese New Wave	3
FILM 5432	Global Art Cinema	3
FILM 5443	Memory, Tears and Longing: East Asian Melodrama Film	3
FILM 5444	Topics in Chinese Language Cinema	3
FILM 5445	Horror in Japanese Media	3
FILM 5446	The Israeli-Palestinian Conflict Through Cinema	3
FILM 5458	Major Film Directors (rotating topics; depends on topic)	3
FILM 5479	Seminar in Interdisciplinary Approaches (rotating topics; depends on topic)	3

Practicum

Students complete the following course (3 units):

Code	Title	Units
FILM 5510	Graduate Practicum in Film & Media Studies	3

Electives (18 units)

Students may select any of the 5000-level FMS courses not used to fulfill the requirements, including the following:

Code	Title	Units
EALC 5300	Topics in Chinese Media Culture	3
FILM 5000	Independent Study	3
FILM 5007	The 007 Saga: James Bond and the Modern Media Franchise	3
FILM 5422	Film Stardom, Performance, and Fan Culture	3
FILM 5424	Broadcasting Equality: Radio, Television and Social Change in Postwar America	3
FILM 5425	Seminar in Video Games: Video Games, Gender and Sexuality	3
FILM 5429	Mass Culture and Modern Media: Fantasylands: Cinema, Spectatorship, and the Spatial Imagination	3
FILM 5432	Global Art Cinema	3
FILM 5439	Clown Princes	3
FILM 5443	Memory, Tears and Longing: East Asian Melodrama Film	3
FILM 5444	Topics in Chinese Language Cinema	3
FILM 5445	Horror in Japanese Media	3
FILM 5446	The Israeli-Palestinian Conflict Through Cinema	3
FILM 5450	American Film Genres	3



FILM 5451	American Television Genres	3
FILM 5452	Advanced Screenwriting	3
FILM 5453	Experiential Design for Immersive Media	3
FILM 5454	American Film Melodrama and the Gothic	3
FILM 5457	From Vitaphone to Youtube: Popular Music and the Moving Image	3
FILM 5458	Major Film Directors	3
FILM 5460	Taboo: Contesting Race, Sexuality and Violence in American	3
FILM 5465	Theory and Practice of Experimental Film	3
FILM 5475	Screening the Holocaust	3
FILM 5478	Topics in Transmedia Franchises	3
FILM 5479	Seminar in Interdisciplinary Approaches	3
FILM 5485	Visualizing Orientalism: Art, Cinema and the Imaginary East 1850-2000	3

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Film and Media Studies, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Four semesters/two years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade required for a course to count toward the MA is a C. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

Master of Arts in Film and Media Studies

Course of Study

Students must fulfill the general requirements for the Master of Arts (MA) degree (p. 53) as set forth in this *Bulletin* by the Office of Graduate Studies, Arts & Sciences. In addition, MA candidates must take the course of study described below, which consists of 36 units of credit and a comprehensive examination.

There is one course of study for the MA in Film and Media Studies (FMS). There is no thesis option for this degree. Students complete 36 semester units (12 courses) that consist of required courses, electives and a practicum. During their final semester of courses, students complete a comprehensive written examination and meet with the examining committee for an oral defense. The examining committee will consist of the director of graduate studies (DGS), the student's advisor, and one other faculty member who is either core or affiliated with FMS. These exams are based on reading and screening lists as well as on courses. The student must meet expectations for broad knowledge of the field appropriate for a master's degree student in the humanities. Normally, if the student expects a May graduation date, they must complete the examinations earlier in the spring semester. All courses should be completed by the end of the semester in which the examination is scheduled.

Students should consult with the DGS during their first semester in the program to obtain the master's students' reading and screening list, and they should also consult regularly with their advisors. Students entering the program from outside the university should expect to take two years to finish the master's degree if they take 9 units per semester; it may take less time if they take more units per semester.

Students may select up to 6 units of FILM 5000 Independent Study, which involves study in an area of film and media that is not ordinarily covered by regular course offerings. Any instance of FILM 5000 Independent Study must be approved by the DGS. With permission of the DGS, students may also satisfy up to 6 units of elective requirements by taking courses at the 5000 level offered through other departments or programs that are relevant to the FMS degree's intellectual focus.

Students must complete one course (3 units) that consists of professional experience that brings to bear academic knowledge and skills associated with the study of FMS. Every student presents a written proposal/plan to the DGS and to the faculty mentor/advisor they select for their practicum. Both faculty members must approve the plan.

The practicum may take a number of forms, but in every case, the experience must be planned in a way that contributes to the student's professional development. It might consist of curating films for a screening or mini-festival accompanied by screening notes, a website, or other forms of writing that enhance the academic value of the event. The student might organize a scholarly symposium or lecture to further the understanding of a particular aspect of the moving image

at Washington University. The practicum may also consist of archival or curatorial work in film, television or other forms of the moving image (e.g., digital art) at an archive, a museum or another nonprofit organization (e.g., a film festival) where the student will have an on-site supervisor.

Students interested in combining primary research with their development as a "public intellectual" might write a book proposal and develop a bibliography in anticipation of writing a book. Alternatively, they may develop a website with consistent and significant critical, historical or theoretical usefulness to those interested in film and media studies, such as one that offers critical analyses of current films or bibliographic information addressing one area of research in the field. The practicum student might participate in other activities related to moving image exhibition, archival preservation or grant application writing. The practicum may also be oriented toward teaching, with the creation of a course syllabus and sample lectures delivered by the graduate student in a venue organized by faculty.

Students may initiate other projects, but any practicum requires a faculty mentor and, in circumstances in which there is a collaborating organization, a letter of endorsement of the practicum from the student's on-site supervisor at the organization. This supervisor will also provide a letter upon completion of the practicum detailing the student's work and its quality. The faculty advisor will award the grade for the practicum.

Required Courses (18 units)

Visual Analysis

Students complete the following course (3 units):

Code	Title	Units
FILM 5010	Advanced Moving Image Analysis and Criticism	3

Moving Image Theory

Students complete one of the following courses (3 units):

Code	Title	Units
FILM 5419	Theories of Mass Media	3
FILM 5420	Film Theory	3

Historiography of the Moving Image

Students complete one of the following courses (3 units):

Code	Title	Units
FILM 5421	Film Historiography	3
FILM 5423	Histories of Media Convergence	3

Television & Digital Studies

Students complete any of the following 5000-level FMS courses in television or electronic media (3 units):

Code	Title	Units
EALC 5300	Topics in Chinese Media Culture	3
FILM 5424	Broadcasting Equality: Radio, Television and Social Change in Postwar America	3
FILM 5425	Seminar in Video Games: Video Games, Gender and Sexuality	3
FILM 5451	American Television Genres	3
FILM 5453	Experiential Design for Immersive Media	3
FILM 5457	From Vitaphone to Youtube: Popular Music and the Moving Image	3
FILM 5478	Topics in Transmedia Franchises	3

Cinema and Television Beyond the United States

Students complete any of the following 5000-level national, regional, or transnational cinema or television studies courses offered in FMS (3 units):

Code	Title	Units
EALC 5300	Topics in Chinese Media Culture	3
FILM 5431	Renegades and Radicals: The Japanese New Wave	3
FILM 5432	Global Art Cinema	3
FILM 5443	Memory, Tears and Longing: East Asian Melodrama Film	3
FILM 5444	Topics in Chinese Language Cinema	3
FILM 5445	Horror in Japanese Media	3
FILM 5446	The Israeli-Palestinian Conflict Through Cinema	3
FILM 5458	Major Film Directors (rotating topics; depends on topic)	3
FILM 5479	Seminar in Interdisciplinary Approaches (rotating topics; depends on topic)	3

Practicum

Students complete the following course (3 units):

Code	Title	Units
FILM 5510	Graduate Practicum in Film & Media Studies	3

Electives (18 units)

Students may select any of the 5000-level FMS courses not used to fulfill the requirements, including the following:



Code	Title	Units
EALC 5300	Topics in Chinese Media Culture	3
FILM 5000	Independent Study	3
FILM 5007	The 007 Saga: James Bond and the Modern Media Franchise	3
FILM 5422	Film Stardom, Performance, and Fan Culture	3
FILM 5424	Broadcasting Equality: Radio, Television and Social Change in Postwar America	3
FILM 5425	Seminar in Video Games: Video Games, Gender and Sexuality	3
FILM 5429	Mass Culture and Modern Media: Fantasylands: Cinema, Spectatorship, and the Spatial Imagination	3
FILM 5432	Global Art Cinema	3
FILM 5439	Clown Princes	3
FILM 5443	Memory, Tears and Longing: East Asian Melodrama Film	3
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FILM 5478	Topics in Transmedia Franchises	3
FILM 5479	Seminar in Interdisciplinary Approaches	3
FILM 5485	Visualizing Orientalism: Art, Cinema and the Imaginary East 1850-2000	3

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 Website: <https://fms.wustl.edu/graduate>

History

The Department of History offers the **Doctor of Philosophy (PhD) in History**. The department specializes in American political culture; the ideas, culture, and society of Central Europe; early modern Europe; East Asia; international urban history; religion in the medieval Mediterranean world; and slavery and freedom in national and

transnational contexts in 17th- through 19th-century America. These core fields draw on the expertise of substantial segments of the faculty and provide significant opportunities for innovative graduate study that bridges conventional historical fields and fosters interdisciplinary research. The department also offers any historical specialization covered by a tenured faculty member.

The graduate program admits only a small number of graduate students each year to promote a close working relationship between students and faculty. We invite applications from mature and self-directed students with well-defined research interests. Our seminars are small and flexible, and we encourage students to develop creative, self-tailored programs of doctoral study.

Our graduates are accomplished professionals in academia, private high schools, nonprofits, business, and the public sector.

Phone: 314-935-5450
 Email: history@wustl.edu
 Website: <https://history.wustl.edu/graduate>

Faculty

Chair

Corinna Treitel
 William Eliot Smith Professor of History
 PhD, Harvard University
 Modern European History

Director of Graduate Studies

Lori Watt
 Associate Professor
 PhD, Columbia University
 Japanese History

Director of Undergraduate Studies

Diana Montaño
 Associate Professor
 PhD, University of Arizona
 Latin American History

Department Faculty

Cassie Adcock
 Associate Professor
 PhD, University of Chicago
 Modern South Asian History

Iver Bernstein

Professor
PhD, Yale University
U.S. History and the Civil War

Daniel Bornstein

Stella K. Darrow Professor of Catholic Studies
PhD, University of Chicago
Early Modern European History

Shefali Chandra

Associate Professor
PhD, University of Pennsylvania
Modern South Asian History

Douglas Flowe

Associate Professor
PhD, University of Rochester
U.S. History

Steve Hindle

Derek Hirst Endowed Professor of Early Modern British History
PhD, University of Cambridge
Early Modern European History

Christine R. Johnson

Associate Professor
PhD, Johns Hopkins University
Early Modern European History

Jonathan Judaken

Gloria M. Goldstein Endowed Chair in Jewish History & Thought
PhD, University of California, Irvine
Jewish History, Racism, Existentialism

Peter Kastor

Samuel K. Eddy Professor
PhD, University of Virginia
U.S. History

Krister Knapp

Teaching Professor
PhD, Boston University
U.S. Intellectual History

Uluğ Kuzuoğlu

Associate Professor
PhD, Columbia University
Modern Chinese History

Nataliia Laas

Assistant Professor
PhD, Brandeis University
Environmental History and Modern Russian and Eastern European History

Steven B. Miles

Professor
PhD, University of Washington
Chinese History

Sowandé Mustakeem

Associate Professor
PhD, Michigan State University
Atlantic Slave Trade and the Middle Passage

Tim Parsons

Professor
PhD, Johns Hopkins University
African History

Mark Pegg

Professor
PhD, Princeton University
Medieval European History

Christina Ramos

Associate Professor
PhD, Harvard University
Latin American History, History of Medicine

Nancy Y. Reynolds

Associate Professor
PhD, Stanford University
Middle Eastern History

Anne Schult

Assistant Professor
PhD, New York University
Modern European History

Dalen Wakeley-Smith

Assistant Professor
PhD, University of Michigan
U.S. History

Marjan Wardaki

Assistant Professor
PhD, University of California
History of Science

Affiliated Faculty

William Bubelis

Associate Professor of Classics
PhD, University of Chicago
Classics

Joanna Dee Das

Associate Professor of Dance
PhD, Columbia University

Adrienne D. Davis

William M. Van Cleve Professor of Law
JD, Yale University School of Law

Martin Jacobs

Professor of Rabbinic Studies
PhD and Habilitation, Free University of Berlin
Jewish, Islamic, and Middle Eastern Studies

Zhao Ma

Associate Professor of Modern Chinese History and Culture
PhD, Johns Hopkins University
East Asian Languages and Cultures

Rebecca Messbarger

Professor of Italian and Women, Gender, and Sexuality Studies
PhD, University of Chicago
Romance Languages and Literatures

Eric P. Mumford

Rebecca and John Voyles Professor of Architecture
PhD, Princeton University
Architecture

Michelle Purdy

Associate Professor of Education
PhD, Emory University

Leigh E. Schmidt

Edward C. Mallinckrodt Distinguished University Professor
PhD, Princeton University
Danforth Center on Religion and Politics

Claudia Swan

The Inaugural Mark Steinberg Weil Professor of Art History
PhD, Columbia University

Mark Valeri

Reverend Priscilla Wood Neaves Distinguished Professor of Religion
and Politics
PhD, Princeton University
Danforth Center on Religion and Politics

Hayrettin Yücesoy

Associate Professor of Arabic and Islamic Studies
PhD, University of Chicago

Steven Zwicker

Stanley Elkin Professor in the Humanities
PhD, Brown University
English

Professors Emeriti

Jean Allman

J.H. Hexter Professor in the Humanities
PhD, Northwestern University
African and African-American Studies

Andrea S. Friedman

PhD, University of Wisconsin
U.S. Women's History

Steven Hause

PhD, Washington University

Derek M. Hirst

William Eliot Smith Professor Emeritus of History
PhD, Cambridge University

Gerald N. Izenberg

PhD, Harvard University

Hillel J. Kieval

Gloria M. Goldstein Professor of Jewish History and Thought
PhD, Harvard University
Jewish History

David T. Konig

PhD, Harvard University

Kenneth Ludmerer

Mabel Dorn Reeder Distinguished Professor in the History of Medicine

PhD, MD, Johns Hopkins University
Medical History

Linda J. Nicholson

Susan E. and William P. Stiritz Distinguished Professor Emerita of
Women's Studies
PhD, Brandeis University

Max J. Okenfuss

PhD, Harvard University

Laurence Schneider

PhD, University of California, Berkeley

Degree Requirements

- History, PhD (p. 309)

Courses

HISTORY 5010 Dissertation Research in History

This is a research course.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 5011 Historical Methods- Trasregional

This is a small-group reading course in which students are introduced to the skills essential to the historian's craft. Emphasis will be on acquiring research skills, learning to read historical works critically, and learning to use primary and secondary sources to make a persuasive and original argument. See Course Listings for current topics. Required for history majors. Preference given to History majors; other interested students welcome.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5080 Nuns

Nuns -- women vowed to a shared life of poverty, chastity, and obedience in a cloistered community -- were central figures in medieval and early modern religion and society. This course explores life in the convent, with the distinctive culture that developed among communities of women, and the complex relations between the world of the cloister and the world outside the cloister. We look at how female celibacy served social and political, as well as religious, interests. We read works by nuns: both willing and unwilling; and works about nuns: nuns behaving well, and nuns behaving

scandalously badly; nuns embracing their heavenly spouse, and nuns putting on plays; nuns possessed by the devil, and nuns managing their possessions; nuns as enraptured visionaries, and nuns grappling with the mundane realities of life in a cloistered community.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: BA, HUM EN: H

HISTORY 5092 Advanced Seminar: Humanitarianism and Human**Rights: Power, Paradigms, Protection**

This course charts the twin development of Western humanitarianism and human rights, with a particular focus on aid and protection as forms of European and US imperialism. Each week, we will focus on one particular set of actors in the humanitarian field: representatives of states, international organizations, NGOs, philanthropists, emergency workers, legal experts, reporters, and not least the affected communities themselves. We will conclude with a discussion of how the complicated history of Western humanitarianism frames our understanding of more recent humanitarian emergencies, such as the European refugee crisis of 2015.

Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5114 Seminar: Perceptions of Time and Place in Early Modern England

This seminar analyses perceptions of time and place in England, c.1500-1800, and their relationship to both personal and social identity. These issues will be explored using appropriate theoretical and substantive readings and both visual and textual primary sources. Particular attention will be given to the use of visual images as historical evidence. Specific issues addressed include the development of cartography, chorography and antiquarianism; conventions of time reckoning and the dating of events; perceptions of the life course; the creation of social memory and historical narratives; representations of social place; agrarian change and the transformation of the landscape; the impact of the Reformation on the calendar, the landscape, and senses of the past; and representations of previously unknown places and peoples. Primary sources for discussion include maps and prospects; chorographical surveys; illustrated antiquarian writings; almanacs; pictorial representations of notable events; engravings; paintings (portraits; 'country house portraits'; landscapes; 'conversation pieces'; history painting and 'documentary' works); memorials; family histories; extracts from court records.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5130 Islamic History: 600-1200

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5131 Teaching in History

This course covers the teaching of History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 5149 Advanced Seminar: Slavery in America: The Politics of Knowledge Production

This course focuses on the long history of Black chattel enslavement in North America, from origins through the era of emancipation. The course foregrounds the struggles over life and death, power and resistance, that were at the heart of legalized slavery's traumatic and grotesquely violent two-hundred-fifty-year career in North America. It foregrounds the Black experience in enslavement, with attention to the imperial and hemispheric settings, and to the important comparative context of Indigenous enslavement. At the same time, this course highlights the fiercely contested historical battleground where scholars have argued about how to define American slavery—as

a system or site of labor, production and reproduction; law, property and dispossession; racial and gender domination; sexual violation, rape and incest; psychological terror and social death; containment and marooning; selfhood and nationality; agency and resistance; anti-colonial and revolutionary liberation and millennial redemption. Finally, it engages the "politics of knowledge production" that have produced the slavery "archive," replete with its annihilating silences, repressions, and erasures, and overdetermined "presences" that have at once shaped and deformed modern understandings of African American experience. In the end, the course's overarching question is how the politics of slavery, of its material experiences, interpretations, and archives, have shaped the lives and afterlives of slavery and race, for Black Americans, to the present day.

Credit 3 units.

Typical periods offered: Fall, Spring

HISTORY 5150 The Middle East in the 20th Century

This course surveys the history of the Middle East since World War I. Major analytical themes include: colonialism; Orientalism; the formation of the regional nation-state system; the formation and political mobilization of new social classes; changing gender relations; the development of new forms of appropriation of economic surplus (oil, urban industry) in the new global economy; the role of religion; the Middle East as an arena of the Cold War; conflict in Israel/Palestine; and new conceptions of identity associated with these developments (Arabism, local patriotism, Islamism).

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM, IS EN: H

HISTORY 5151 The Late Ottoman Middle East

This course surveys the Middle East in the late Ottoman period (essentially the 18th and 19th centuries, up to the First World War). It examines the central Ottoman state and the Ottoman provinces as they were incorporated into the world economy, and how they responded to their peripheralization in that process. Students will focus on how everyday people's lived experiences were affected by the increased monetarization of social and economic relations; changes in patterns of land tenure and agriculture; the rise of colonialism; state efforts at modernization and reform; shifts in gender relations; and debates over the relationship of religion to community and political identity.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5158 Topics in American History

This course explores the racial construction of the use of legal and illegal substances in American history from the mid-19th century to the present. We will spend time engaging in a historical analysis of the social, economic, and racial dynamics that defined drug addiction in popular imagination, and examine how these factors contributed to discussions about legality, access to substances, one's ability to be rehabilitated, and criminal status. Regarding criminality we will particularly explore sociological and theoretical perspectives of labeling, habitual and occasional offenders, and moral panic in order to understand how racial minority groups were targeted for different rhetorical, legislative, and economic purposes. One major goal of the course will be to outline the early 20th century beginnings of the war on drugs and connect it to the century long growth of a militarized police system and prison industrial complex. We will secondly work to understand the role of local and national political actors, law enforcement, and the media in manufacturing and maintaining connections between race, crime and drugs. Ultimately, we will use our study of drugs to contextualize 21st century issues of police violence, increases in homicide in minority communities, mass incarceration, poverty, segregation, and mass movements of protest.

Credit 3 units.

Typical periods offered: Fall

HISTORY 5165 A History of Modern China

This course explores the nineteenth and twentieth-century history of China. Its purpose is to provide students with a historical foundation to understand the momentous changes the country underwent during its traumatic transition from an empire to a nation-state. We start the course at the height of the empire's power in late-eighteenth century, when the Qing dynasty (1637-1912) conquered vast swathes of lands and people in Inner Asia. We then move on to the Qing's troubled relationship to Western capitalism and imperialism in the nineteenth century, which challenged the economic, social, and ideological structures of the imperial regime, culminating in the emergence of China as a nation-state. Situating its national history within a global context, the course outlines in detail the transformations that took place in the twentieth century, from the rise of communism and fascism to the Second World War to Maoism to Cultural Revolution. We end the semester with yet another major change that took place in the 1980s, when a revolutionary Maoist ideology was replaced with a technocratic regime, the legacies of which are still with us today. This course is for Graduate students.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

HISTORY 5169 Theories and Practices of U.S. Empire, 1776 to Present

This historically-based, cross-disciplinary course investigates theories and practices of American empire in the long era of US nationhood, 1776 to present. We will pay special attention to definitional questions--in what sense can the United States be considered an empire? To what extent has it been so considered, and why (or why not)? In what ways has the empire-building project in the U.S. been imperial or/and colonial? Formal or/and informal? How have fundamental imperial contradictions--the search for unity as opposed to the need to manage the politics of difference--been experienced? What have been the dynamics of imperial violence and anticolonial resistance in US history? How have the practices of anticolonial resistance and anticolonial violence shaped the course of US empire? And what are the politics of collective memory and/or amnesia that have followed in the wake of these experiences? Such questions will be explored with both a comparative awareness and with attention to the fields of literature, law, political theory and art history where problems of representing and historicizing US empire have been addressed. The course takes the form of an intensive seminar, requiring commitment to weekly readings, informed discussion, and critical writing; it will include a final essay that can either be a research paper based on the analysis/interpretation of primary sources, or a historiographical essay.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5190 Independent Reading

This is an independent study course.

Credit 9 units.

Typical periods offered: Fall

HISTORY 5193 Modern South Asia

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5220 Advanced Reading

This course is for independent study.

Credit 9 units.

Typical periods offered: Fall

HISTORY 5230 Advanced Reading

This course is for independent study.

Credit 9 units.

Typical periods offered: Fall, Spring

HISTORY 5261 The Early Medieval World: 300-1000

This course begins with the crisis of the Roman Empire in the third century and the conversion of the Emperor Constantine to Christianity in 312. We will study the so-called barbarian invasions of the fourth and fifth centuries and the collapse of the Roman Empire in the West. The Roman Empire in the East (and commonly known as the Byzantine Empire after the seventh century) survived intact, developing a very different style of Christianity than in the lands of the former western empire. Apart from examining Christianization in the deserts of Egypt or the chilly North Sea, we will discuss the phenomenon of Islam in the seventh century (especially after the Prophet Muhammad's death in 632) and the Arab conquests of the eastern Mediterranean and north Africa. In the post-Roman world of the West we will read about the Anglo-Saxons, the Carolingians, and the Vikings. In exploring these topics we will have to think about the relationship of kings to popes, Emperors to patriarchs, of missionaries to pagans, of cities to villages, of the sacred to the profane. Our attention will be directed to things as various as different forms of monasticism, the establishment of frontier communities, the culture of the Arabian peninsula, magic, paganism, military tactics, Romanesque churches, sea travel, manuscript illumination, the architecture of mosques, early medieval philosophy, the changing imagery of Christ, holiness, and violence as a redemptive act.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

HISTORY 5264 Advanced Seminar: Race, Crime, and American Prisons

This course will explore the politics of race, crime, policing, criminal justice, and the American prison system. Students will read a number of important texts that engage these subjects and will become familiar with the prominent ideas in a growing historiography that addresses inequality in law enforcement. We will also examine a number of historical theories that have shaped this scholarship in order to understand how historians have dealt with the problem of racial prejudice in crime and punishment. As a result, the class will begin with themes of criminalization along lines of gender and racial identity, and ultimately lead to a history of the American carceral state.

Credit 3 units.

Typical periods offered: Fall, Spring

HISTORY 5275 Palestine, Israel, and the Arab-Israeli Conflict

This course examines the history of the Arab-Israeli conflict from the mid-nineteenth century to the present. Topics include: Palestine in the late Ottoman period; the development of modern Zionism; British colonialism and the establishment of the Palestine Mandate; Arab-Jewish relations during the Mandate; the growth of Palestinian nationalism and resistance; the establishment of the state of Israel and the dispersion of the Palestinians in 1948; the Arab-Israeli wars; both Palestinian uprisings; and the peace process.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5280 Historiography of Late Imperial China

This course introduces students to the variety of scholarly interpretations of late imperial, primarily Ming (1368-1644) and Qing (1644-1911), Chinese history. This course is designed for M.A. and PhD students in history, Chinese Literature, and East Asian Studies.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5302 Middle Eastern History: Law and Revolution in Modern Egypt

This is a small-group reading course in which students are introduced to the skills essential to the historian's craft. Emphasis will be on acquiring research skills, learning to read historical works critically, and learning to use primary and secondary sources to make a persuasive and original argument. See Course Listings for current topics. Required for history majors. Preference given to History majors; other interested students welcome.

Credit 3 units. A&S IQ: HUM BU: HUM, IS EN: H

Typical periods offered: Spring

HISTORY 5303 Theory, History, Asia and Empire

In this seminar we consider how historically minded scholars use the theoretical insights of others to enrich their tellings of the past. First we read, summarize in writing, and discuss our understanding of a particular theoretical essay. Then we read a work of history that makes specific use of the essay. This approach provides us with the opportunity to practice writing about our theoretical work, compare our understanding with scholars who have made use of the same set of ideas, and assess their use of those ideas.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5304 Proseminar: Early Modern British History

This course, of intensive readings and discussion, will examine main interpretive currents in the historiography of early-modern Britain. Permission of the instructor required.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5305 Proseminar: Modern Latin American History

This course is an introduction to the historiography of Latin America from the colonial period to the present. Topics include: the Spanish Empire in comparative and Atlantic perspectives; colonial Latin American industries and the "world system"; sociocultural histories of colonial women, gender, and religion; peasants in the emergence of nation-states and liberal political regimes in the nineteenth century; race and nation in former slave societies; and the transition from dependency theory to imperial and transnational paradigms. This course is designed for M.A. and PhD students. Reading knowledge of Spanish is recommended, but not required.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5307 Seminar in Modern European History

This course introduces students to central concepts and problems in the historiography of modern Europe from the late eighteenth century to the present. Possible topics include the French Revolution; industrialization and the making of the working class; ideas and movements such as liberalism, socialism, nationalism, and feminism; state formation, citizenship, and welfare; imperialism and its impact both in Europe and beyond; Nazism and Stalinism as alternatives to liberalism; and key themes such as consumption, decolonization, and multiculturalism in the post-1945 era. Each student must also register for the instructor's correlating section in 49IR.

Credit 3 units.

Typical periods offered: Fall

HISTORY 5314 Islamic History: 1200-1800

An introduction to Islamic polities and societies from the Mongol conquests to the thirteenth century to the collapse and weakening of the colossal gunpowder empires of the Ottomans, Safavids and Mughals in the early eighteenth century. Broadly speaking, this course covers the Middle Period (1000-1800) of Islamic history, sandwiched between the Early and High Caliphal Periods (600-1000) on the one hand and the Modern Period (1800-Present) on the other hand. Familiarity with the Early and High Caliphal periods is not assumed. The course will not be a survey of this period but a series of windows that will allow you to develop both an in-depth understanding of some key features of Islamic societies and a clear appreciation of the challenges (as well as the rewards!) that await historians of the Middle Period. Particular attention is given to the Mamluk and Ottoman Middle East, Safavid Iran and Mughal India.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM, IS EN: H

HISTORY 5330 Out of the Shtetl: Jews in Central & Eastern Europe Between Empire, State, and Nation

Credit 3 units. EN: H

HISTORY 5332 The Christian Middle Ages

This course examines the ways in which the European Middle Ages can appropriately be characterized as Christian and explores how notions of what it meant to be Christian shifted over the thousand years of the Middle Ages. The assigned readings mix important recent monographs with some classic treatments of the topic, allowing students to measure developments in scholarship over the last generation and trace the roots of current debates. Brief extracts from primary sources will be used to illustrate the range of medieval documents and ground our discussion of their modern interpretations.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5333 Crusade, Conflict, and Coexistence: Jews in Christian Europe

This course will investigate some of the major themes in the history of the Jews in Europe, from the Middle Ages to the eve of the French Revolution. Jews constituted a classic, nearly continuous minority in the premodern Christian world—a world that was not known for tolerating dissent. Or was it? One of the main purposes of the course is to investigate the phenomenon of majority/minority relations, to examine the ways in which the Jewish community interacted with and experienced European societies, cultures, and politics. We will look at the dynamics of boundary formation and cultural distinctiveness; the limits of religious and social tolerance; the periodic eruption of persecution in its social, political, and religious contexts; and the prospects for Jewish integration into various European societies during the course of the Enlightenment era.

Credit 3 units. A&S IQ: HUM, LCD, SC BU: ETH, HUM, IS EN: H

Typical periods offered: Fall, Spring

HISTORY 5337 Becoming Modern: Emancipation, Antisemitism, and Nationalism in Modern Jewish History

This course offers a survey of the Jewish experience in the modern world by asking, at the outset, what it means to be—or to become—modern. To answer this question, we look at two broad trends that took shape toward the end of the eighteenth century—the Enlightenment and the formation of the modern state—and we track changes and developments in Jewish life down to the close of the twentieth century with analyses of the (very different) American and Israeli settings. The cultural, social, and political lives of Jews have undergone major transformations and dislocations over this time—from innovation to revolution, exclusion to integration, calamity to triumphs. The themes that we will be exploring in depth include the



campaigns for and against Jewish emancipation; acculturation and religious reform; traditionalism and modernism in Eastern Europe; the rise of political and racial antisemitism; mass migration and the formation of American Jewry; varieties of Jewish national politics; Jewish-Gentile relations between the World Wars; the destruction of European Jewry; the emergence of a Jewish nation-state; and Jewish culture and identity since 1945.

Credit 3 units. A&S IQ: HUM, LCD, SC Art: HUM BU: HUM, IS EN: H UColl: HEU, HSM

HISTORY 5338 History of the Jews in Islamic Lands

This course is a survey of Jewish communities in the Islamic world, their social, cultural, and intellectual life from the rise of Islam to the Imperial Age. Topics include: Muhammad, the Qur'an and the Jews; the legal status of Jews under Islam; the spread of Rabbinic Judaism in the Abbasid empire; the development of new Jewish identities under Islam (Karaites); Jewish traders and scholars in Fatimid Egypt; the flourishing of Jewish civilization in Muslim Spain (al-Andalus); and Sephardi (Spanish) Jews in the Ottoman empire. On this background, we will look closely at some of the major Jewish philosophical and poetical works originating in Islamic lands. Another important source to be studied will be documents from the Cairo Genizah, reflecting social history, the status of women, and other aspects of daily life.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5340 Gender in Early Modern Europe

This course will examine the major scholarly developments in the study of women's history, masculinity, and gender(ed) representations in early modern Europe. Topics covered will include: gender and politics; gender and work; marriage and family life; honor and social control; sodomy; witchcraft; religious experience and Reformation; and masculinity and science.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5342 The Reformation

This graduate seminar will examine the Protestant Reformation from its late-medieval roots to the toward religious toleration in the seventeenth century. We will also study Catholic responses to the changing religious and political environment and the impact of these changes on society and culture within and beyond the boundaries of Latin Christendom.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5350 Out of the Shtetl: Jewish Life in Central and Eastern Europe in the 19th and 20th Centuries

Out of the Shtetl is a course about tradition and transformation; small towns and urban centers; ethnicity and citizenship; and nations, states, and empires. At its core, this course asks the following questions: What did it mean for the Jews of Central and Eastern Europe to emerge from small market towns and villages to confront modern ethnicities, nations, and empires? What lasting impact did the shtetl experience have on Jewish life in a rapidly changing environment? The focus is on the Jewish historical experience in the countries that make up Central and Eastern Europe (mainly the Bohemian lands, Hungary, Poland, and Russia) from the late 18th century to the fall of the Soviet Union. Among the topics that we will cover are Jews and the nobility in Poland-Lithuania; the multicultural imperial state; Hasidism and its opponents; absolutism and reform in imperial settings; the emergence of modern European nationalisms and their impact on Jewish identity; antisemitism and popular violence; nationalist and radical movements among Jews; war, revolution, and genocide; and the transition from Soviet dominion to democratic states.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall

HISTORY 5351 Advanced Seminar: Technology and Tool of Empire

What do transatlantic cables, oranges, bush pumps, barbed wire, corrugated iron, uranium, the pill, kitchens, a breathing machine, and cheek swaps have in common? These are objects that shape human societies. Empire threads through these objects: in telegraph lines that bound colonies to metropolises, in laboratories that translated local knowledge into imperial science, in domestic machines that mirrored global hierarchies of labor and gender. Technologies emerge here not as neutral artifacts but as sites where power, culture, and material practice meet. This course explores how technology and empire have shaped one another -- especially the intrinsic relationship of technology and knowledge to empire -- tracing their connected histories across continents, disciplines, and centuries. We will read about technological objects that travel, as well technologies that have been contested and reimagined imperial power. We begin by asking what counts as "technology" and how different cultures and political orders have defined and deployed it. Moving through debates on determinism, innovation, and maintenance, we examine the ways technologies have served as instruments of domination and resistance -- as tools of extraction, communication, and control, but also of survival, translation, and repair. From Cold War kitchens to African workshops and Indian planning offices, we will explore how people across the world have inhabited, subverted, and reshaped technological systems.

Credit 3 units.

Typical periods offered: Fall

HISTORY 5353 Vienna, Prague, Budapest: Politics, Culture and Identity in Central Europe

The term Central Europe evokes the names of Freud and Mahler; Kafka and Kundera; Herzl, Lukács, and Konrád. In politics, it evokes images of revolution and counter-revolution, ethnic nationalism, fascism, and communism. Both culture and politics, in fact, were deeply embedded in the structures of empire (in our case, the Habsburg Monarchy)--structures which both balanced and exacerbated ethnic, religious, and social struggles--in modern state formation, and in the emergence of creative and dynamic urban centers, of which Vienna, Budapest, and Prague were the most visible. This course seeks to put all of these elements into play--empire, nation, urban space, religion, and ethnicity--in order to illustrate what it has meant to be modern, creative, European, nationalist, or cosmopolitan since the 19th century. It engages current debates on nationalism and national identity; the viability of empires as supra-national constructs; urbanism and modern culture; the place of Jews in the social and cultural fabric of Central Europe; migration; and authoritarian and violent responses to modernity.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5357 Graduate Seminar in History

This graduate seminar is a topics course, topics vary by semester. Please see semester course listings for current topics.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 5358 Graduate Seminar in History: The Second British Empire

This world history seminar traces the history of the Second British Empire from its inception during the new imperial era of the 1880s to its demise in the decades after the Second World War. Topics include: imperial administration; police and military institutions; settlement commerce and investment; economic development; gender; race and racism; agriculture; urbanization; education; and popular culture. Credit 4 units.

Typical periods offered: Spring

HISTORY 5362 Methods and Materials for Research On Early Modern China

This seminar provides an introduction for graduate students to the methods and materials used in conducting research on early modern (or late imperial) China. Lectures, discussions, and exercises will present fundamental paradigms and problems specific to the study of early modern China, as well as familiarizing students with the vast body of print and web-based research tools necessary to work with original texts in Chinese. We will also explore how social, cultural, and literary historians have used various texts in their scholarly works. Students will be encouraged to use the course to pursue individual research interests as they explore the broader contexts, approaches, and questions central to the study of early modern China and introduces graduate students to important recent scholarly literature on the history of early modern (essentially Ming and Qing) Chinese history.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5377 Science and Technology in East Asia

The aim of this graduate course is to provide a broad introduction to Science and Technology Studies (STS) in East Asia that has recently been undergoing momentous transformations. How did STS in East Asia change from the early twentieth century onward? What are the main historiographical trends in writing East Asian sciences? And what kinds of questions are left unexplored? This course will in particular focus on the transformation from the early modern to the modern period (ca. 1600 to 2000), during which the organization of natural knowledge in East Asia witnessed a significant reconfiguration. Situating historical change at the intersection of local and global dynamics, this course will introduce a variety of subjects including histories of epistemology, technologies of governance, global circuits of knowledge transfer, the uneasy ties between colonialism and modern science, and issues around energy, infrastructure, and environment. Apart from familiarizing themselves with the history of science and technology, students will also obtain a firm grasp of historiographical and methodological problems that pertain to STS in East Asia from Joseph Needham's groundbreaking works to post-Needham critiques, to more recent debates around capitalism, science, and technology.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5401 Proseminar in History

This research seminar trains graduate students in historical research and writing. Each student will develop a focused research topic at the beginning of the semester and will produce an essay of approximately 30-40 pages. Seminar papers should serve as the basis for portfolio papers, publishable articles, or dissertation chapters. Students are invited to explore topics that advance their particular research goals.

Students are also encouraged to use this course as an opportunity to deepen existing skills or to explore new methodological approaches. Credit 4 units.

Typical periods offered: Spring

HISTORY 5410 Core Seminar in American History: Introduction to American History Since 1865

Graduate reading and critical discussion of major secondary works that address principal problems in analyzing and understanding change in the United States since 1865.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5411 Proseminar: Introduction to Graduate Study of American History to 1865

This course will serve as an introduction to graduate-level work in American history. It surveys major historical works, themes and controversies, beginning with the earliest contacts between Europeans, Africans, and Native Americans on the North American continent and continuing through the Civil War. What constitutes good history and the relation of theory and practice in the writing of history are among the issues that will be addressed. The course is required for all departmental graduate students doing advanced work or field preparation in American history (and strongly suggested for non-historians incorporating history in an American Culture Studies program); advanced undergraduates may be admitted with permission of the instructor.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5431 Core Seminar in Comparative and World History

The Core Seminar in Comparative and World History examines a historical institution, idea, phenomenon, or process across range of cultures and regions. Although the specific case studies will vary from year to year, topics might include: empires, urbanization, revolutions, famines, or evangelism. The seminar will be of interest to students of all historical fields seeking to develop comparative historical models to their own areas of research.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5432 Advanced Seminar in History: Medieval Foundations of Modern Law

This seminar will study the law codes, legal theories, forensic methods, modes of litigation, judicial processes, criminal punishments, and legal cultures of the medieval West from the fifth century to the fifteenth. Topics to be discussed include the Late Roman Theodosian and Justinianic Codes, law in a lawless world after the collapse of the Western Roman Empire, the early English (or Anglo-Saxon) law codes, laws as songs, monastic Rules, Carolingian capitularies, the early medieval penitentials, feudal law, the Gregorian Reforms, secular and canon law, the rediscovery of Roman law, the rise of lawyer popes, the first university law schools in the twelfth century, the Fourth Lateran Council, Magna Carta, the early inquisitions into heretical depravity, courtroom testimony and confession, methods of interrogation and cross-examination, torture, life imprisonment, the development of English common law and the jury system, law as a secular profession, and the writing of laws and legal documents in vernacular languages (especially English and French) rather than Latin by the fifteenth century. The modern legal system of the United States (and the United Kingdom, Canada, New Zealand, and Australia) was founded upon the legal history of this medieval millennium. The fundamental differences between Anglo-American and European law (and much of Central and South American law) also derives from these early centuries. Students will participate in weekly seminars reading and discussing primary and secondary sources in translation. Students are required to write a historiographic essay (4-6 pages) and a research essay (20-30 pages) on topics of their choosing. No prerequisites. 4 Units.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 5441 Core Seminar in World and Comparative History

The course examines a historical institution, idea, phenomenon, or process across range of cultures and regions. Although the specific case studies will vary from year to year, topics might include: empires, urbanization, revolutions, famines, or evangelism. The seminar will be of interest to students of all historical fields seeking to develop comparative historical models to their own areas of research.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5446 Core Seminar in Comparative & World History

Please see course listings for current topics.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5451 Modern Germany

This course surveys the political, social, economic, and cultural forces that have shaped German history since 1800. After examining the multiplicity of German states that existed in 1800, we will identify the key factors that resulted in unification in 1871. We then turn to a study of modern Germany in its various forms, from the Empire through the Weimar Republic and Third Reich, to post-war division and reunification. A major focus will be the continuities and discontinuities of German history, particularly with regard to the historical roots of Nazism and attempts to break with the past after 1945.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

HISTORY 5472 Proposals, Prospectuses, and Professional Development

This course is designed to introduce students to the craft of dissertation and grant proposal writing. It is organized as a weekly workshop that will culminate in the production of one funding application and a dissertation prospectus that will serve as a first draft and model for the submission of that prospectus as part of the qualifying requirements. While the course is intended for PhD students in History, students in related disciplines may also find it useful.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5473 Literature of History

This course is designed to introduce you to some of the most significant works in the writing of history, books and articles that have changed fields, generated new strategies for analyzing historical events, and deployed new or innovative theories in historical studies. The texts chosen for this course are, in a sense, some of the greatest hits in the literature of history and at the same time an idiosyncratic list, skipping many significant works and including some that might not make it onto another scholar's list. The aim is to trace some of the changes in theory and methods of historical studies over the course of the second half of the twentieth century and, most importantly, to offer students of varied periods and places diverse strategies for tackling particular historical problems.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5532 The Culture of the Renaissance

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5544 Europe Under the Old Regime, 1660-1789

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5548 Histories of the Japanese Archipelago

This course seeks to provide graduate students with an understanding of the sweep of the Japanese past, from the early modern period through the twenty-first century. Students will engage in several key debates in Japanese historiography and learn how scholars of Japan have drawn on and contributed to important methodologies. This course is ideal for graduate students who plan to cultivate Japanese history as an area of research and teaching expertise, and who intend to use Japanese history as one of the three fields necessary for completing the qualifying exams required by the Department of History. Advanced undergraduates with an interest in the topic should contact the instructor for permission to enroll.

Credit 4 units.

Typical periods offered: Fall

HISTORY 5550 Advanced Topics in Modern Chinese History

A topics course in modern Chinese history. Subject matter varies by semester; consult current semester listings for topic.

Credit 3 units.

HISTORY 5560 Socialist and Secular? A Social History of the Soviet Union

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5565 American Pragmatism

This course examines the history of American pragmatism through three of its primary founders, the philosophers Charles Peirce, William James, and John Dewey. It considers pragmatism as a response to the experience of uncertainty brought on by modernity, and contextualizes it amidst late nineteenth and early twentieth century thought and politics, namely, scientific methodology, evolutionary theory, the probabilistic revolution, Transcendentalism, the rise of secularism, slavery, Abolitionism, and the Civil War. Major essays by each thinker will be read as well as three intellectual biographies and one critical survey.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5566 The Fascist Challenge in Europe

European Fascism was both a transnational and an international phenomenon. This course will focus on the study of national and transnational cultures of Fascism and fascist networks, the range and consistency of their ideological specificity, their internal cohesion as well as their ideas about the future. The central theme of the course will be the potential for violence and destruction, which became a horrific reality during the Second World War and the Holocaust.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

HISTORY 5670 The Long Civil Rights Movement

Credit 3 units. A&S IQ: HUM, SC BU: BA, HUM EN: H

HISTORY 5676 Beyond the Harem: Women, Gender, and Revolution

This course examines the history and current situations of women in Middle Eastern societies. The first half of the course is devoted to studying historical changes in factors structuring women's status and their sociopolitical roles. The second half of the course will focus on several case studies of women's participation in broad anticolonial social revolutions and how these revolutions affected the position of women in those societies.

Credit 3 units. A&S IQ: HUM, LCD BU: BA, HUM EN: H

HISTORY 5697 Heroes and Saints in India: Religion, Myth, History

This course provides an introduction to the history of modern India and Pakistan through the voices of the Indian subcontinent's major thinkers. We will spend time in the company of saints, from the great-souled Mahatma Gandhi to the Sufi scholar Ashraf 'Ali Thanawi, and we will travel alongside the heroes of peasant politics, women's rights, and struggles for national and social freedom and equality. We will immerse ourselves in the rich narrative heritage of India -- as it has been challenged, reworked, and harnessed for present and future needs -- from the 19th century through the present. Lecture and discussion format; prior knowledge of India or Pakistan not required. Credit 3 units. A&S IQ: HUM, LCD BU: ETH, HUM, IS EN: H

HISTORY 5698 American Intellectual History Since 1865

This course concentrates on social, cultural, philosophical and political thought since the end of the Civil War, and investigates how American thinkers have responded to the challenge of modernity. After an examination of the end of the old religious order and the revolt against Victorianism, it analyzes the subsequent rise of pragmatism, progressivism, literary modernism, radical liberalism, political realism, protest movements and the New Left, neo-conservatism and the New Right, and the current state of intellectuals in post-911 America. Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: BA, HUM EN: H

HISTORY 5709 Food Histories in East Asia

The course broadly conceives East Asia as a geographical unit of inquiry and explores food and foodways in context of not only what people eat, but how people conceive food beyond a material object to fulfill their corporeal appetite. Scholars in different disciplines have employed food and foodways as a useful category of analysis and have explored a variety of social and cultural dimensions in which people live and have lived. Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5747 Modern European Intellectual History

With a focus on Western Europe, this course is designed to make you familiar with the major intellectual movements and thinkers in the modern period. We cover both the towering, canonical figures and those critical of the canon. We look at the main schools of thought, the major political doctrines, and key literary and artistic groups, including humanism, Protestantism, Enlightenment rationalism, Romanticism, realism, nationalism, liberalism, capitalism, socialism, racism, feminism, colonialism, impressionism to surrealism, fascism, existentialism, and postmodernism. We also discuss the most significant conceptual categories that have defined the modern European world, including the concepts of nature, human nature, God, truth, reason, freedom, justice, gender, and race. The course differs from other history courses in that its emphasis is on intellectual matters--ideas, discourses, thinkers, schools of thought--and differs from a philosophy, literature or social science course in its emphasis on how ideas both reflect and contest their historical contexts. Credit 3 units.

Typical periods offered: Fall, Spring

HISTORY 5770 Spanish Republic and Civil War in Spain

Credit 4 units.

HISTORY 5802 Advanced Seminar: Partition: The Making of India and Pakistan

The division of India and Pakistan at the time of Independence from British colonial rule was a major event that has left its mark on the lives, memories, and politics of contemporary South Asians. Why did British India break apart along apparently religious lines? Was sectarian or communal violence inevitable, or endemic in South Asian society? How was Partition - a time of violence, mistrust,

dispossession, displacement, and mass migration -- experienced by ordinary people? How is the traumatic memory of this event borne by individual women, children, by families? How does its legacy persist, and how is it being remembered, and reckoned with, today? In this course, we will not find final answers to these difficult questions, but we will learn how to explore them responsibly, using literature, film, and other archival sources. This course provides students with a forum to discuss and explore topics of their own choosing.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

HISTORY 5811 Between Sand and Sea: History, Environment, and Politics in the Arabian Peninsula

Although it is today primarily associated with oil, the Arabian peninsula was for most of its history defined by water: its surrounding seas, its monsoon-driven winds, and its lack of water in its vast and forbidding interior deserts. As home to the major holy cities of Islam and a key source of global oil, the region has played an important role in the Western European and North American imagination. Despite being relatively sparsely populated, the peninsula hosts millions of believers each year on the annual Muslim pilgrimage, and it has been the site of major wars and military occupations by European, American, and other Middle Eastern countries for much of the 20th and 21st centuries. It has been an outpost of the Ottoman Empire, a center of British colonialism and (at Aden) an axis of its global empire, the location of Egypt's Vietnam (its long war in Yemen in the 1960s), the Gulf Wars I and II, and the recent wars in Yemen, to name just a few of the major conflicts. Often depicted as unchanging until caught up by the influx of massive oil wealth, this region is frequently characterized as a place of contradictions: home to some of the world's largest skyscrapers and also the most inhospitable and largest sand desert in the world, known as the Empty Quarter; the location of crucial American allies and the home of al-Qa'eda founder 'Usama Bin Laden. In this course, we will examine the development of the peninsula historically to understand these contradictory images. We will investigate changes in the following arenas: environment and society; colonial occupation; newly independent states; the demise and development of key economic sectors (pearling; shipping; agriculture; oil; finance; piracy); political regimes; resources such as water, oil, and date palms; the growth of oil extraction infrastructure and its effects on the political regimes and societies in the region; the emergence of new Gulf cities; Islamic law; women's rights; human rights debates; and religious and ethnic minorities.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

HISTORY 5815 Advanced Seminar: New York, New York: The Empire City From Stuyvesant to Trump

This research seminar engages the long history of greater New York City, from the place Native Americans called Manna-hata to the largest city in the United States, the world political, financial and cultural capital that it is today. The course explores New York City's ambivalent relationship with America, with the world, and with itself. It focuses on matters of power--how, in different moments of the city's history, it was defined, who held it, and how various groups managed to contest for it--matters of exchange and extraction, political, cultural, and economic--and matters of belonging--whether a city of immigrants, exiles and refugees succeeded in becoming a home for the homeless. It pays close attention to the micro--the street corner and political ward, the bridge and the tunnel; the gentrifying neighborhood; the mosaic of the city's foodways; the theater, financial, slaughterhouse, brothel, and other districts--and the macro--the banks and the stock exchange; the port and transit authorities; the instrumentalities of knowledge and cultural production in the city's universities, print media, clubs and salons; sports empires; political machines, organized

crime, and the grassroots labor and political movements, insurgencies and undergrounds. Above all, the course will foreground the city's massive and unbearable contradictions, as a city of skyscrapers and of basement dives, lures, and snares; as a symbol of the future and freedom bound to traumatic, slave and unfree pasts; as a symbol of modern independence bound to modern interdependence; and as a place of Renaissances and Ruinations, where the world either comes together or spectacularly falls apart. Sites of potential investigation, in a list suggestive rather than exhaustive, range from the African Burial Ground to the 9/11 Memorial and Museum, from Hamilton to Hamilton, from Boss Tweed to Robert Moses, from the Five Points to Chinatown, from Delmonico's to Sylvia's, from Blackwell's Island Lunatic Asylum to Hart Island Potter's Field, from the African Free School to Ocean Hill-Brownsville, from Marcus Garvey to Amadou Diallo, from Billie Holiday to Andy Warhol, from James Baldwin's Harlem to Stonewall, from George Steinbrenner to Jerry Seinfeld, from the Gowanus Canal to Estée Lauder, and, in the spirit of the course title, from Stuyvesant to Trump.

Credit 3 units.

Typical periods offered: Fall, Spring

HISTORY 5850 Shrinking City or Growth Machine?: The History of the Post-Industrial City

This course will explore the way that American cities have evolved in the face of shrinking de-industrialized economies and the shift to neo-liberal post-industrial growth. Focusing on the 1960s to the present, the class will examine the process of urban change in the late 20th century, including: de-industrialization; urban decline; growth policies; and gentrification.

Credit 4 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5851 Prisons, Politics and Activism

Prison reformers argue that de-criminalizing nonviolent offenses will be enough to reduce mass incarceration, while prison abolitionists argue that we need to dismantle the entire carceral state in the U.S., which is maintained by a racially stratified system of public schooling, housing, employment and health care. What is at stake in these debates? Are we seeking to promote basic humanity, racial and gender equality or utopian visions of rehabilitation? This course seeks to historically contextualize prison reform and abolitionism from the 13th Amendment's re-articulation of slavery to current resistance to mass incarceration. Special attention will be paid to the intersections between the prisoner's rights movement and the Black & Brown Power, feminist, queer and disability movements.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5870 Topics in American History: Race and Drugs in American History

This course explores the racial construction of the use of legal and illegal substances in American history from the mid-19th century to the present. We will spend time engaging in a historical analysis of the social, economic, and racial dynamics that defined drug addiction in popular imagination, and examine how these factors contributed to discussions about legality, access to substances, one's ability to be rehabilitated, and criminal status. Regarding criminality we will particularly explore sociological and theoretical perspectives of labeling, habitual and occasional offenders, and moral panic in order to understand how racial minority groups were targeted for different rhetorical, legislative, and economic purposes. One major goal of the course will be to outline the early 20th century beginnings of the war on drugs and connect it to the century long growth of a militarized police system and prison industrial complex. We will secondly work to understand the role of local and national political actors, law enforcement, and the media in manufacturing and

maintaining connections between race, crime and drugs. Ultimately, we will use our study of drugs to contextualize 21st century issues of police violence, increases in homicide in minority communities, mass incarceration, poverty, segregation, and mass movements of protest. Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5872 Colonial Cities and the Making of Modernity

Massive urban growth has been a central result of the incorporation of many areas--both central and peripheral--into the global economy in the 19th and 20th centuries. Scholars have long theorized urbanization as a key component of modernity, but they have usually done so by looking at urbanization and modernization from the perspective of the West. This course will investigate the character of cities in the colony and then use these empirical and analytical entry points to examine critically some theories of modernity. The geographical focus of the course will be primarily on cities in the Middle East, North Africa, and South Asia.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5876 Mexican Agriculture: Land, Politics and Development

Access to and ownership of land has been a major issue in Mexican history. Land tenure in economic development has been a constant source of tension and debate since the 18th century. Paradoxically, land tenure has been put forth as both the obstacle and the solution to the country's modernization. Given its centrality in the construction of the modern period, this course examines liberalism, agrarian revolts, the revolution, the green revolution and neoliberalism through the lens of land issues. This course will also explore how these have shaped and have been shaped by indigenous peoples and peasants, from land disentanglement to the fight against GMO maize. Students will evaluate agrarian reforms, agricultural modernization programs, concepts of and transformations of natural resources, food production/consumption and social policies.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5880 Oil and Modern America

This course will provide a chronological and thematic examination of the history of oil in modern America (emphasis on 1890s-present). The course will focus its attention on key personalities, tensions and debates, and periods of swift progress and destabilization in the long history of U.S. petroleum, and will flesh out oil's broader impact on American life as well as the effects of American political culture on the internal mechanisms of the oil industry.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5881 American Diversity

Credit 3 units. A&S IQ: SSC EN: S

HISTORY 5884 Advance Seminar: The Roots of the American Working Classes: Myths, Realities, Histories

The diverse realities of American labor and working-class experience have long been submerged under layers of politics and ideology. How should we study the lives of working people? What questions should we ask? Where do we go to answer them? This research seminar engages the lived experiences of the American working classes, in all their complexity, over the long 19th- and 20th-centuries, to the present. The course has the double project of (1) exploring the roots of mythologies about American working people that have the effect of distorting or erasing their experiences, efforts and accomplishments, and struggles for organization, visibility, citizenship, and power, with special attention to mythologies about American workers who are non-white, non-male, and non-U.S.-born who did/do not fit conventional tropes of American labor or the white worker; and (2) exploring the roots of working people's experiences, as shaped

by forces of technology, class, race, gender and sexuality, religion, nationalism, and violence : what are the challenges, conceptual and archival, of studying the people, in their working and familial/community lives, as producers and consumers, in their organizing efforts, and in their civic and political capacities? How did the transformation of work, technology, culture, and society over this long era from Enslavement to Artificial Intelligence, from Blackface Minstrelsy to Hip Hop, shape working people's lives and struggles? How did working people survive cataclysmic crises, from the Civil War to Covid, and mold the evolution of American citizenship and democracy? Each student will produce a 12-15 page original research paper related to the course material, based on an analysis of primary sources, in consultation with the instructor, and due at the end of the semester; the course is designed to closely mentor students in this project.

Credit 3 units. A&S IQ: HUM, SC BU: HUM EN: H

Typical periods offered: Fall, Spring

HISTORY 5886 Advanced Seminar: Medicine, Disease and Empire

This course examines the history of medicine in connection to the politics of colonialism and empire-building, spanning the sixteenth century through the twentieth century. Topics covered include: epidemic disease outbreaks (e.g. smallpox, cholera, malaria); the role of science and medicine in endorsing the civilizing missions of empires; tropical climates and tropical diseases as western constructs; tensions between western medicine and indigenous healing practices and beliefs; ideas of race and racism in science and medicine; modern advancements in sanitation and public health and their implementation overseas; and the historical roots of the modern global health movement.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

HISTORY 5888 Advanced Seminar: Digital Frontiers in History

Can digital technologies offer new ways to rethink historical narratives? Is DH the future of the humanities and of history as a profession? Can DH and critical inquiry be brought together? This course explores the history, present, and future of digital humanities (DH) to seek responses to these questions. From its origins in the Cold War to its rise to fame in the 1990s, the digital turn in the humanities has garnered excitement and support as well as critique and even disavowal from historians. In this course, we will examine the debates in the field of DH and learn about new ways in which historians are using digital tools for academic research as well as public outreach and activism. The course will be divided into two parts. The first half of the course will be devoted to understanding the historical growth and the present status of the field. In the second half, students will be learning basic digital tools to conduct research. The purpose of the course is not to turn historians into coders; it is to understand what codes can do for historians.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5893 The U.S. in Vietnam: Origins, Developments and Consequences

This course will focus on America's involvement in Vietnam from the era of French colonialism through the collapse of United States intervention. Special attention will be given to political, military, economic, and cultural aspects, as well as to international relationships, and the significance of the experience and subsequent developments upon both American and Vietnamese societies.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall, Spring

HISTORY 5901 Advanced Seminar: Meet Me in St. Louis

This seminar uses the 1904 Louisiana Purchase Exposition held in St. Louis as a lens to explore the intersection of exhibitionary culture, nation building and history. In the second half of the 19th century, world's fairs became a fact of life in many parts of the world. By the end of the century, American historian and cultural critic Henry Adams argued there was indeed a religion of world's fairs. These international expositions, as sites of pilgrimages not only informed people's perception of the world but also were ideal stages for young countries to showcase their achievements, to attract investors and to craft a national identity. Students will examine the rise of exhibitionary culture and the construction of patriotic histories and national symbols, the manufacturing of racial ideologies and otherness, and how these were all embedded in debates on civilization, modernity and progress.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

HISTORY 5902 Slavery in America: The Politics of Knowledge Production

This course focuses on the long history of chattel slavery in North America, from origins through emancipation, encompassing Black and Indigenous enslavement. The course foregrounds the struggles over power, over life and death, that were at the heart of slavery's traumatic and grotesquely violent two-hundred-fifty-year career in North America, with attention to hemispheric context. At the same time, it highlights the fiercely contested historical battleground where scholars have argued about how to define American slavery--as a system or site of labor, production, and reproduction; law, property, and dispossession; racial and gender domination; sexual violation, rape, and incest; psychological terror and social death; containment and marooning; selfhood and nationality; agency and resistance; anti-colonial and revolutionary liberation and millennial redemption. Finally, it engages the politics of knowledge production that have produced the slavery archive, replete with its annihilating silences, repressions, and erasures, and overdetermined presences. In the end, the course's overarching question is how the politics of slavery, of its material experiences, interpretations, and archives, have shaped the lives and afterlives of slavery and race, to the present day. Students will conduct original research on topics related to North American slavery in consultation with the instructor that will culminate in a 12-15-page final essay. The course includes attention to the role of slavery in the founding and development of Washington University, and research projects that engage the University's slavery archive and questions related to enslavement in the history of the University and/or the history of St. Louis are welcome and will be supported by Olin Library Special Collections and other resources. Modern, U.S. PREREQUISITE: SEE HISTORY HEADNOTE.

Credit 3 units. A&S IQ: HUM BU: BA, ETH, HUM EN: H

Typical periods offered: Fall, Spring

HISTORY 5903 Advanced Seminar: Inventing India

From Christopher Columbus' misguided search for a mythical notion of India, to the Incredible India branding campaign launched by the Indian State's Department of Tourism, to the allure of yoga and true love, the notion of India has its own history. In this Advanced Seminar we trace the invention of India - as a concept - over time. We'll learn how the fabrication of India has proceeded through the centuries, and how the many meanings of India coalesce, nimbly side-stepping any popular or professional narrative of Indian history. Mobilizing an array of interdisciplinary tools, we will plot how the fetishization of India has itself become a flexible industry, how the management of Indian exceptionalism drives caste expansion. We'll study how the process renders certain subject positions and hierarchies as neutral and hegemonic while violently discarding others; how India is a product

collectively manufactured, circulated, and consumed by a range of people around the world; the very real work of translation in bringing India into our everyday lives and imaginaries. This course fulfills the History major capstone requirement as an Advanced Seminar.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Spring

HISTORY 5904 Topics in Environmental History

This course is intended to be an introduction to the study of environmental history. The semester begins with a general inquiry into the methods of the field and then we will use what we have learned to move into a focused sub-topic. Readings will include seminal works in the field, as well as philosophical, scientific, and science fiction texts that will help us to explore more abstract questions dealing with the relationship between humankind and the natural world.

Credit 3 units.

HISTORY 5906 Religion and the Secular: Struggles Over Modernity

A generation ago, scholars and observers around the world felt assured that modernization would bring the quiet retreat of religion from public life. But the theory of secularization now stands debunked by world events, and a host of questions has been reopened. This course provides students with a forum to think through these issues as they prepare research papers on topics of their own choosing.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5910 The Collapse of Communism

This course examines the political, social, economic, and cultural factors that led to the demise of the USSR in 1991. Focusing on the lands from the Socialist Bloc in Eastern Europe to the Soviet east, it broadly engages post-WWII Soviet history and in particular, focuses on the politically stable and largely socially tranquil decades spanning the 1960s to the 1980s.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5911 Independent Research for Capstone

This course is to be taken in addition to any Advanced Seminar for which a student registers. Course is 1 unit.

Credit 1 unit. EN: H

Typical periods offered: Fall, Spring

HISTORY 5912 Advanced Seminar: Blood & Sacred Bodies: Ritual Murder & Host Desecration Accusations

This seminar follows the history of the Ritual Murder and Host Desecration accusations from the origins in 12th and 13th century Europe to the 20th century. It pays close attention to the social and political functions of the narratives; their symbolic importance in Christianity's salvific drama; attacks on such beliefs from both within and outside the community of the faithful; the suppression and decline of the ritual murder accusation; the integration of Jews into European societies in the 19th century; and the reappearance of the blood libel in the aftermath of emancipation.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5913 Fixing Boundaries, Crossing Borders: History of the U.S.-Mexico Borderlands

Credit 4 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5915 Japan in World History--History and Memory

This course examines the history of World War II in Asia and how it has been remembered in the postwar era. We will trace the war, from the first Japanese military attack on China in 1931 through the US atomic bombings of Hiroshima and Nagasaki in 1945. We will also

examine several postwar controversies concerning how the war has been forgotten and remembered in Japan, in the rest of Asia, and in the United States. Goals include grasping the empirical history of the war as a step to becoming familiar with the theories and methods of Memory Studies in History.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

HISTORY 5916 Advanced Seminar: Visual Culture and American History

How does United States history look different with visual culture at the center of the story? Focusing on the nineteenth century in particular, this course investigates how images and other visual objects did not simply reflect, but also shaped society, culture, politics, ideas and identities. The course moves from the Revolution to the mass-culture society of the early twentieth century. During this period, American experienced a litany of profound transformations in the growth of cities to the emancipation of slaves.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5917 Advanced Seminar: Women and Gender in Modern Caribbean History

This course will highlight women in the making of Caribbean history, and it will consider how men and women were made in the English-speaking Caribbean from emancipation (1838) to the present. We will explore women and gender issues within the context of significant political shifts including the transition from slavery to wage and indentured labor, the labor rebellions of the 1930s, the rise of labor unions and political parties, anti-colonial activism, decolonization and nationalism. The course will also situate the Caribbean within an international context, paying attention to migration, black internationalism and the Third World movement.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM, IS EN: H

HISTORY 5919 Gender and Power in Comparative Perspective

This course provides a thematic overview of the intellectual question, methodological challenges, and historiographical innovations that arise when gender as a category of historical analysis is used to interrogate the ideologies and institutions of public and private power in comparative perspective.

Credit 4 units.

Typical periods offered: Spring

HISTORY 5920 Sexuality in the United States

Does sex have a history, and if so, how can we study it? This seminar examines important themes in the history of sexuality: the relationship between sexual ideologies and practices; racial hierarchy and sexuality; the policing of sexuality; construction of sexual identities and communities; and sexual politics at the end of the century. Students will also spend time discussing theoretical approaches to the history of sexuality, as well as methodological issues, including problems of source and interpretation.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5922 Planning Global Cities

This team-taught advanced seminar will address the history and theory of a variety of metropolitan environments from the mid-nineteenth century to the present. Readings will move from the nineteenth century state-centered urbanism of Paris or Vienna, through the colonial remaking of cities like Manila or Caracas and their connections to urban reform and the City Beautiful movement in the U.S., then through the rise of planning, zoning, auto-centered cities, federal interventions like urban renewal, the emergence of the preservation movement and new urbanism.

Credit 3 units.

HISTORY 5923 Egypt and the Arab Spring: Middle Eastern Revolution in Historical Perspective

The uprisings of the Arab Spring of 2011 captivated global media and observers. The movements brought down established regimes in Tunisia, Libya, Yemen, and Egypt. The focus of this course will be to understand the historical background and primary contemporary issues that have shaped Egypt's Arab Spring, and to examine the huge popular effort to document Egypt's revolution. Each student will design, research, and write a 25-page paper on a topic of his/her choice related to the Arab Spring.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5924 The Founding Fathers' Government in an Electronic Age

This is a research seminar that examines how Americans sought to translate their notions of government into a realistic set of priorities and a functioning set of public institutions. Extending from 1789 through the 1820s, this course investigates how the federal government came into being, what it did, and who populated the civilian and military rank of American officialdom. This is also a course in digital history. Students will create new knowledge through their own contributions to an ongoing digital project that seeks to reconstitute the early federal workforce. In the process, students will learn a variety of digital techniques, ranging from encoding languages to electronic systems to software packages.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5925 The Enlightenment in Latin America: Science & Reason On the Colonial Frontier

What is Enlightenment? Neither the harbinger of a utopian society 'philosophes' and bureaucrats in the Age of Revolutions anticipated nor as totalitarian or destructive as social critics judged from the twentieth century, the projects of self-styled rationalists and empiricists have had repercussions in seemingly every aspect of life. This course invites students to consider the contributions of non-Western actors to the emergence of our modern world. Specifically, we examine the variety of ways scientists, administrators, and laypeople in Latin America and the Caribbean thought about medicine and disease, race, religion, social and political organization, and problems of truth and empiricism in the eighteenth and nineteenth centuries. The goal is to engage critically with the view that the modern world emerged from predominantly textual, literate, English, or French traditions and to think about how we can recover the cultural contributions of non-literate groups of indigenous American, African, and Spanish descent.

Credit 4 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5926 Gender, Sexuality, and the Body in Latin America

This course offers students an immersion in the relevant debates on gender, sexuality, and the body as lenses through which Latin America can be understood. Through a variety of methodologies, perspectives, and document types, students will engage such diverse topics as: colonial gender systems; state violence; homosexuality; love and relationship; work; emotive culture; social discourse; citizenship; revolution; and identity. Through memoirs, primary archival sources, and secondary treatments of the past and present, as well as film, we will explore how gender, sexuality, and the body are not only important in understanding Latin America, but vital.

Credit 4 units. EN: H

HISTORY 5927 Money Talks: Readings in Economic History

To date, economic history has been dominated by quantitative research. In recent years, however, there has been a turn toward more qualitative analysis. With his landmark *Capital* in the Twenty-First Century, Thomas Piketty argued that Economics ought to return to its origins in political and moral philosophy. Similarly, on this side of the Atlantic, a new generation of historians has begun to revisit the history of capitalism with methods that combine both numbers and narrative. In this advanced seminar, students will read both contemporary and seminal works in the field of economic history as well as writings from a wide variety of social scientists and humanistic scholars who study the economy. The aim of this course is to think critically about the historical construction of both economics as a discipline and the economy as a field of inquiry.

Credit 3 units. EN: H

Typical periods offered: Fall

HISTORY 5929 Blacks and Indians in Latin America

The goal of this course is to introduce students to the study of indigenous and African-based resistance and rebellion in the Americas and the Caribbean from the colonial period to the nineteenth century. Throughout the course, we will discuss how concepts such as agency, popular or subaltern politics, and resistance have been variously interpreted by scholars of both indigenous and African diasporic societies. By beginning in the early colonial period when Indians and Blacks became new social and racial categories, we will think about the relevance and changing meanings of such categories over time, and look beyond national and/or linguistic borders.

Credit 4 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5942 Europe's Jewish Problem: Antisemitism & Jewish-Christian Confrontation in European History

The so-called Jewish Question was a product of European modernity. It emerged in conjunction with the formation of modern states, Enlightenment projects for political reform, the decline of religious influence in society, and struggles over Jewish emancipation. In this seminar, students will examine the unusual career of this obsession from the sixteenth through the twentieth century by focusing selectively on a number of illustrative episodes: Christian Hebraism and the Reformation; the Enlightenment assault on religious power; European debates on Jewish emancipation; the emergence of the Jewish Question in the nineteenth century; antisemitism as a modern political phenomenon; the renewed discourse of Jewish ritual murder at the turn of the 20th century; Zionism and other forms of Jewish nationalism; and the question of anti-Zionism in the reformulation of the Jewish Question during the past half-century.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

HISTORY 5951 The Inquisition in Europe, Asia, and Latin America, 1200-1700

This seminar will study the history of the Inquisition from its beginnings in southern France in the first half of the 13th century up to the investigations undertaken by Dominicans and Franciscans in 17th century Mexico and Peru. Along the way the seminar will focus upon other inquisitions in Europe (especially those made in Italy, Spain, and Germany), and the hunt for heresy in Goa and the Philippines. This course will read inquisitional manuals (books on how to conduct an inquisition), and original inquisitional documents (the records of the trials and interrogations). Consequently, the history of heresy and witchcraft, as understood by people in the past and historians in the present, will be discussed.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H



HISTORY 5964 Advanced Seminar: Magic, Heresy and Witchcraft in the Medieval World, 200-1500

This seminar will study the history of magic, heresy, and witchcraft in the medieval world. It will begin in the fourth century after the conversion of Constantine the Great and end with the great witchcraft trials of the fifteenth and sixteenth centuries. The seminar will read magical treatises, ecclesiastical polemics against vulgar belief, inquisitorial trials, chronicles, and histories, in our attempt to define what was considered the ordinary and the extraordinary, the natural and the supernatural, good and evil, the boundaries of heaven and earth. How do modern historians use medieval documents to evoke the lives of men, women, and children who believed in magic or were accused of heresy? Can this only be done through a form of historical anthropology? What methods do historians use in trying to understand past ideas and practices? What is historical truth then? What is the relationship of supposedly heterodox belief and behavior with religious orthodoxy? How do we define religion? A theme throughout this seminar will be the definition of evil and the powers of the devil. Students will write a short historiographic essay and a long research essay. Pre-modern, Europe.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

HISTORY 5976 The American Trauma: Representing the Civil War in Art, Literature and Politics

This seminar is an interdisciplinary examination of how Americans represented the Civil War during and after the titanic conflict, with special attention given to the period between 1865 and 1915. The course explores how painters, novelists, photographers, sculptors, essayists, journalists, philosophers, historians, and filmmakers engaged the problems of constructing narrative and reconstructing national and individual identity out of the physical and psychological wreckage of a war which demanded horrific sacrifice and the destruction of an enemy that could not be readily dissociated from the self.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5979 Gender, Race and Class in South Africa, 1880-Present

By focusing on the complex historical dynamics of race, gender and class in South Africa over the past 120 years, this course is aimed at understanding the development of segregation, apartheid, and racial capitalism, as well as the emergence of multiple forms of resistance to counter white minority rule. Topics include: white settler expansion and the defeat of the African peasantry; the rise of mining capital and the emergence of a racially divided working class; the origins of African and Afrikaner nationalisms; migrant labor and the subordination of African women; and the prospects for a non-racial, non-sexist democracy in a unified South Africa.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5980 Advanced Seminar: Historical Perspectives on Human Rights

This course offers a historical perspective on the modern international human rights regime, using materials drawn from diplomatic, legal, political, and cultural studies. Successful completion of this seminar involves designing, researching, and writing a 25-30 page paper on a historically-oriented, human-rights-related topic of your choice.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

HISTORY 5984 The Problem of Freedom: The Age of Democratic Revolution in the Americas

Ever since the improbable alliance of the English pirate and slave trader Sir Francis Drake and the fugitive slave Cimarrons on the Atlantic coast of Panama many centuries ago, the history of freedom in the New World has unfolded in unlikely fits and starts. The course will explore two related conjectures: first, that maroon politics (the often short-lived alliances between slaves, quasi-free blacks and white allies), slave rebellion, provincial secession and civil war were the widespread and normative conditions of post-colonial regimes throughout the New World; and second, that the problem of freedom was especially challenging in a New World environment in which freedom was fleeting and tended to decompose. Special attention will be given to antislavery insurgencies, interracial politics and alliances in the United States and the perspectives on freedom they produced, but the readings will also include materials on debates over freedom in the Caribbean and South America over the course of the long age of democratic revolution, 1760-1888.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

HISTORY 5985 Advanced Seminar: Renaissance Florence and Venice

Venice was the most famously stable city-state in Renaissance Italy, Florence the most notoriously unstable one. This course explores how those contrasting political environments and experiences shaped social relations and cultural production (and vice versa) in those two cities.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 5991 Advanced Seminar: History of the Body

Do bodies have a history? Recent research suggests that they do. Historians have tapped a wide variety of sources - including vital statistics, paintings and photographs, hospital records, and sex manuals - to reconstruct changes in how humans have conceptualized and experienced their own bodies. We will pay particular attention to the intersection of European cultural history and history of medicine since 1500. This course fulfills the History major capstone requirement as an Advanced Seminar.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall, Spring

HISTORY 5997 Women and Religion in Medieval Europe

This course explores the religious experience of women in medieval Europe and attempts a gendered analysis of the Christian Middle Ages. In it, we will examine the religious experience of women in a variety of settings - from household to convent. In particular, we will try to understand how and why women came to assume public roles of unprecedented prominence in European religious culture between the twelfth century and the sixteenth, even though the institutional church barred them from the priesthood and religious precepts remained a principal source of the ideology of female inferiority.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

HISTORY 5999 The Crusades

This seminar will study the phenomenon of crusading in medieval Latin Christendom, from the First Crusade proclaimed by Pope Urban II in 1095 to the late crusades of the fourteenth and fifteenth centuries. We will particularly focus on crusading in the twelfth and thirteenth centuries, when the ideas and practices of being a martial pilgrim were developed and formalized by the Church. The concept of holy war in Latin Christianity and Islam will be examined. We will analyze the Fourth Crusade and the sack of Constantinople in 1204. We will investigate the Albigensian Crusade (1208-1229) into what is now southern France, when Christians were promised salvation for killing other Christians and whether genocidal moments occurred during this holy war against heretics. Topics to be discussed are the Kingdom

of Jerusalem and other crusader colonies in the Levant, women on crusade, the poetry of crusading, chivalry, military orders like the Knights Templars and the Hospitallers, and violence as a redemptive act. One historiographic paper and a research essay are required.
Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

HISTORY 59TP Whose Nairobi? Opportunity and Inequality in a Twentieth Century African City

Credit 3 units.

HISTORY 6001 Readings in Religion and Politics

This course will include religion and politics readings.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6010 Readings in Early American History

Early American History readings will be covered in this course.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6020 Readings in Modern United States History

This course will cover Modern United States History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6030 Readings in Latin American History

This course will cover Latin American History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6040 Readings in Intellectual History

This course will cover British History.

Credit 4 units.

Typical periods offered: Spring

HISTORY 6050 Readings in European History

This course will cover European History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6060 Readings in African-American History

This course will cover African American History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6070 Readings in the History of Gender

This course will cover Women's History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6080 Readings in Middle Eastern History

This course will cover Middle Eastern History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6090 Readings in Jewish History

This course will cover Jewish History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6100 Readings in East Asian History

This course will cover East Asian History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6110 Readings in Russian History

This course will cover Russian History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6120 Readings in Comparative History

This course will cover Comparative History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6130 Readings in African History

This course is a graduate reading seminar in African history. Selected topics will include: African geography and environmental history, the classical kingdoms of the Sahel, the development of Swahili culture, the trans-Atlantic slave trade, the historical roots of Apartheid, the intellectual and material culture of colonialism, African resistance and adaptation to social change during the colonial era, decolonization, and roots of some of the major problems facing modern Africa.

Credit 3 units.

Typical periods offered: Fall, Spring

HISTORY 6140 Readings in World History

This course will cover World History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6150 Readings in the History of Empire and Decolonization

This course will cover Legal History.

Credit 4 units.

Typical periods offered: Fall

HISTORY 6160 Readings in Environmental History

This course will cover Environmental History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6170 Readings in History of Medicine, Science and Technology

This course will cover the History of Medicine, Science and Technology.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6180 Readings in American Frontier History

This course will cover American Frontier History.

Credit 4 units.

Typical periods offered: Fall, Spring

HISTORY 6190 Readings in American Legal History

This course will cover American Legal History.

Credit 4 units.

Typical periods offered: Fall

HISTORY 6200 Readings in Urban History

This course will cover Modern American Legal History.
Credit 4 units.
Typical periods offered: Fall, Spring

HISTORY 6210 Readings in South Asian History

This course will cover South Asian History.
Credit 4 units.
Typical periods offered: Fall, Spring

HISTORY 6225 Readings in Carribean History

2 or 4 units with permission of instructor.
Credit 4 units.
Typical periods offered: Fall

HISTORY 6227 Readings in American History

This course will cover American History.
Credit 4 units.
Typical periods offered: Fall

HISTORY 6229 Readings in Atlantic History

This course will cover Atlantic History.
Credit 4 units.

HISTORY 6245 Introduction to American Culture Studies

An introduction to interdisciplinary approaches to the study of American culture. The class will examine the relationship between cultural criticism and scholarship on American culture, the history of the American Studies and cultural studies movements, the simultaneous turn to historicist approaches in literary studies and to textualist approaches to historical studies, the moral and interpretive implications of the shift from a modernist to a postmodernist stance in cultural inquiry, and the challenges that multiculturalist and transnational perspectives pose to the study of a national American culture. Many of the readings will emphasize trends in cultural history, but will also include works in anthropology, art and architectural history, literary history, media studies, political and social theory, and religious studies.
Credit 4 units.

HISTORY 6260 Readings in Medieval History

This course will cover Ancient History.
Credit 4 units.
Typical periods offered: Spring

HISTORY 6280 Readings in Environmental History

This course will cover Caribbean History.
Credit 4 units.
Typical periods offered: Spring

HISTORY 6300 Readings in the History of Migration

2 or 4 units with permission of instructor.
Credit 4 units.
Typical periods offered: Fall, Spring

HISTORY 7885 Master's Nonresident

This course is for nonresident History Master's students.
Credit 0 units.
Typical periods offered: Fall

HISTORY 8886 Doctoral Nonresident

This course is for nonresident History Doctoral students.
Credit 0 units.
Typical periods offered: Spring

History, PhD

Phone: 314-935-5450
Email: history@wustl.edu
Website: <https://history.wustl.edu/graduate>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 graduate units
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in ASGS 9000 Full-Time Graduate Research/Study, which will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B is required for coursework to count toward the degree.

These guidelines will remain posted on the Graduate Requirements & Grades page of the Department of History website.

PhD in History

Requirements and Academic Assessment

Doctoral candidates ordinarily spend two to three full academic years in residence. Before the dissertation defense takes place, doctoral candidates must have completed 36 units of graduate credit. Over the course of their doctoral program, graduate students may not register for more than 36 units of credit without special consideration. The Department of History does not allow the use of transferred credits from previous graduate work elsewhere.

Grades

The performance of students in Arts & Sciences is marked by the grades A, B, C (Conditional), and F. The grade of C indicates unsatisfactory work and will be awarded academic credit only if matched by an equivalent number of units graded A. Plus or minus grades may be given. Some courses may be graded Pass/No Pass.

Graduate students should expect to earn a grade of A or A- as a mark of good progress through the program. Although a grade of B+ or B will qualify a student for full credit, these grades should be viewed as a warning that the student has not sufficiently demonstrated a full mastery of the course material at the doctoral level.

A full-time graduate student is not allowed more than one incomplete per semester, and that incomplete must be resolved within 120 days of the last day of the semester in which it was awarded. Within this requirement, it is recommended that faculty and students agree in writing as to the resolution of the incomplete.

Academic Probation and Dismissal

The Department of History closely follows the guidelines of the Office of Graduate Studies, Arts & Sciences, as described in the Policy on Probation and Dismissal for Academic Reasons.

All students in the PhD program are expected to satisfy the academic performance requirements of the Office of Graduate Studies, Arts & Sciences, which can be found in the General Requirements section of the Doctoral Degree Academic Information page (p. 42) of the Graduate Arts & Sciences *Bulletin*.

Annual Review Letter

The Department of History uses annual review letters to keep students informed about the department's expectations of their progress and to identify any problems. At the end of each academic year, students receive annual review letters based on the observations of all faculty members with whom they have worked during the academic year, whether in a class, in an Advanced Readings course, or as part of an MER. The letters will identify strengths and room for improvement and will provide clear steps for addressing any concerns.

Graduate Studies Committee

The Department's Graduate Studies Committee manages all departmental decisions regarding placement on probation, removal from probation, recommendations for dismissal after a probationary period, and recommendations for immediate dismissal due to extreme underperformance. The Graduate Studies Committee consists of the Director of Graduate Studies and three or four additional faculty members appointed by the department chair at the beginning of each academic year.

Examining Committee

The Examining Committee consists of three or four field examiners, including the primary advisor. The primary advisor (i.e., the faculty member supervising the dissertation) will serve as chair of the examining committee. The student and the primary advisor will select the additional appropriate faculty members to serve on the student's examining committee.

Research Advisory Committee (RAC)

In consultation with their advisor, students must constitute a Research Advisory Committee (RAC), which consists of three faculty members. The formation of the committee is a required milestone for program completion. The primary advisor is the chair of the committee. The student and the chair will select appropriate faculty members to serve as the two additional members. At least one of the two must be Department of History faculty. Please note that the Research Advisory Committee will not necessarily consist of the same faculty members as the examining committee; however, the student's primary advisor will serve as chair on both committees. The student will submit the Research Advisory Committee (RAC) form to the Graduate Program Administrator prior to their dissertation prospectus defense (p. 312).

Doctoral Dissertation Committee

The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. More information can be found below in the Dissertation Prospectus & Defense (p. 312) section of this page.

General Course Requirements

Doctoral candidates must complete 36 units of graduate credits. Graduate students must be registered for 9 graduate credits for the semester. To be eligible for tuition remission, courses must be taken at the graduate level, taken for a grade, and approved in advance by the student's advisor for the student's degree. Graduate-level courses are numbered at 5000 or above. Audited courses are not eligible for tuition remission and cannot count toward full-time status in a given semester. Undergraduate courses open to graduate enrollment will have a corresponding course number at the 5000 level to enable students to enroll for graduate credit. When certain conditions

apply, graduate students may be permitted to register for Arts & Sciences courses numbered below 5000, but those courses will not be covered by tuition remission and will not count toward the student's degree requirements. For specific exceptions, refer to the General Requirements section of the Doctoral Degree Academic Information page (p. 42) of the Graduate Arts & Sciences *Bulletin*.

Required Courses

- HISTORY 5473 Literature of History
 - Offered during the fall semester on an annual or biannual basis; serves as an introduction to the graduate study of history
- HISTORY 5472 Proposals, Prospectuses, and Professional Development
 - Offered every other spring semester; usually taken during the second or third year

Seminars & Readings

Graduate seminars, which are 5000-level courses designed for graduate students, are devoted to intensive reading and critical discussion. These courses help students to develop a broad understanding of current debates in the fields to be covered in the qualifying examination.

Advanced seminars are devoted to the writing of a major paper in a particular historical field or on a specific period or topic. They train the student in the analysis of historical problems, in research techniques, and in writing, which are the nuts and bolts of later work on a dissertation.

In some fields, students frequently enroll in readings (e.g., HISTORY 5220 Advanced Reading, HISTORY 5230 Advanced Reading). In readings, between one and four students work closely with a faculty member.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called preliminary, qualifying, general, comprehensive, or major field exams. The qualifying process varies according to the program. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

To advance to PhD candidacy, in addition to completing the necessary coursework, students must meet the following requirements:

1. The qualifying examination, which entails the following three requirements:
 - a. Evidence acceptable to the examining committee (p. 310) of competence in foreign language(s) or other skills (p. 311) relevant to the proposed research
 - b. One portfolio paper (p. 311) that meets the approval of the examining committee (p. 310)
 - c. Successful completion of the qualifying examination, which consists of a written component and an oral component (p. 312)
2. The dissertation prospectus (p. 312)

These two basic requirements may be met in any order at the discretion of the student's primary advisor.

The qualifying examination evaluates the student's competence in three fields of history or in two fields of history and one other discipline or program. The examining committee (p. 310) also assesses the student's readiness to undertake independent research for the dissertation, as indicated by the student's portfolio paper. The student should take their qualifying examination during the fourth semester. The student must defend their dissertation prospectus (p. 312) by the beginning of the fifth semester, no later than September 30.

Examiners do not formally grade performance on the qualifying examination except to indicate passage or failure. A student who fails to qualify for dissertation research may be recommended for a master's degree in lieu of a PhD (p. 314). The primary advisor and the student should notify the Graduate Program Administrator of the completion of these academic requirements.

Languages and Quantitative Skills

Each graduate student's need for linguistic and quantitative skills is determined during their first semester in consultation with their advisor. This determination is subject to review by the Graduate Studies Committee. The student's examining committee will ascertain, by the time of the qualifying examination, if sufficient progress toward acquiring these skills has been made.

The minimum requirement is normally competence in the language of the documents or culture in which the student proposes to do dissertation research as well as competence either in one other language (other than English) or in the practice of a quantitative or other technical skill. Students normally demonstrate competency by passing a translation examination, using foreign-language primary sources to write a portfolio paper, or successfully taking a particular course.

Portfolio Paper

As part of the qualification process, students prepare one portfolio paper. Based extensively on primary sources, the portfolio paper often serves as the foundation for a student's first academic publication. The paper may (but is not required to) relate to the student's proposed dissertation work. Students frequently revise and refine their paper after completing the seminars in which they were initially written.

Papers completed during graduate study elsewhere, as well as those written expressly for presentation to the examining committee, are also acceptable. Ordinarily, the paper should be written under the supervision of the primary advisor and connected to the student's major field.

Written and Oral Components

The qualifying examination consists of both written and oral components. In each of the three fields, the examiner determines the form of the written exam. It may be a timed, written exam of three hours administered one to two weeks before the oral exam. It may be a syllabus for a proposed course. It may be an extensive literature review of a field. The oral examination takes place after all written components are completed. During the oral exam, faculty ask students questions about debates in the field, sometimes drawing on the written work to do so.

Dissertation Prospectus & Defense

The dissertation prospectus is a detailed statement describing the dissertation the student proposes to write. The dissertation should make an original contribution to historical scholarship.

Before choosing a subject, the student should consult the American Historical Association's list of theses in progress to avoid duplication. In roughly six to twelve pages, the prospectus should answer, as explicitly as possible, the following four questions:

1. *What are the major hypotheses or generalizations that the student expects to develop and test in the dissertation?*
 - a. The prospectus should describe the historical phenomena (i.e., events, figures, situations, trends, or problems) to be explored. It should, however, look beyond mere narrative and description to the kinds of questions and potential answers the research itself will produce. In doing so, the prospectus should indicate the significance of the research for the contribution to historical knowledge. Since hypotheses are subject to the test of research, the prospectus may include tentative assertions that contradict as well as complement one another.
2. *What is the present status of relevant historical literature, and how will the proposed research contribute to ongoing debates in the field?*
 - a. The answer will indicate how far the student has gone in thinking about the problem, demonstrate the student's familiarity with secondary materials, and attempt to situate the student's own investigation relative to other scholars in the field. A bibliography should be appended to the prospectus.
3. *What kinds of sources and data will the project involve, and what research procedures and techniques will be required?*

- a. The writer must have a conception of the resources needed, where they may be found, and how they can be tapped and analyzed. Unexpected data or documents are sure to turn up, but the researcher must know where to begin. Some indication is needed of the documents, archives, published primary materials, and oral histories that will be consulted.
4. *What are the specific limits to the research that will keep the dissertation within manageable scope and length?*
 - a. Reasonable care must be taken to develop a practicable dissertation problem and research plan that can be brought to completion. The prospectus should include information about any completed research work, manuscript drafts, and a tentative schedule for the project.

Since research alters the character of any proposed dissertation, the student is not bound to carry out the exact program described in their prospectus. However, the student should have a feasible plan in place by the prospectus deadline, September 30 of the fifth semester. Students planning on applying for major research fellowships, including the Fulbright or ACLS, should submit them during the summer of year two. If successful, those fellowships would support research abroad during year four.

Students defend the dissertation prospectus before the RAC, which does not formally grade performance on the defense of the dissertation prospectus except to indicate passage or failure.

Title, Scope, and Procedure (TSP)

After the Dissertation Prospectus Defense, the student will submit the Title, Scope & Procedure Form, which must be signed by the RAC members and by the program chair and submitted through the Graduate Program Administrator to the Office of Graduate Studies, Arts & Sciences. The Title, Scope, and Procedure Form must be filed before the end of the student's fifth semester of graduate study.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Students must defend the dissertation prospectus by the beginning of the fifth semester and complete all remaining pre-candidacy requirements, advancing to doctoral candidacy by the end of the fifth semester.

Mentored Experience Requirements

For complete information about the guidelines and definitions for completion of the Mentored Experience Requirement (MER) please consult the Mentored Experience Requirement (MER) page of the website of the Office of Graduate Studies, Arts & Sciences.

As part of their graduate training, students will complete five semesters of Mentored Teaching Experiences (MTEs). Refer to the History Department's Mentored Experience Implementation Plan. Students will enroll in appropriate credit units and be responsible for any paperwork required for each MER.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

Procedure

One month before the anticipated defense, the student and the advisor should work with the Graduate Program Administrator to complete the necessary paperwork and schedule the defense. The History Department requires the student to make the full text of the dissertation available to the committee members at least two weeks before the defense.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Along the Way

- Students earn a master's degree along the way when they successfully complete their qualifying exams (p. 311). This includes the completion of oral and written portions of qualifying exams (p. 312), dissertation prospectus defense (p. 312), and submission of the RAC (p. 310) and TSP (p. 310) Forms.

In Lieu of a PhD

Students who, for whatever reason, are unable to continue in the PhD program may apply for a master's degree in lieu of the PhD. To earn this degree, the student must have done the following:

- Satisfactorily completed a minimum of 36 units of credit. The Department of History does not require an MA thesis. Therefore, none of the required 36 units will be awarded for thesis research.
- Successfully completed the course HISTORY 5473 Literature of History
- Successfully passed an oral examination in two fields of history

Students who have not completed their exams by September 30 of their fifth semester may be asked to depart the program at the end of that semester by meeting the requirements for an MA in lieu of a PhD.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

The History Department considers teaching to be a key component of the historian's role and teacher-training to be a central feature of our doctoral program. It aims to prepare students to be adept teachers as well as able scholars. To that end, it provides all doctoral students with a graduated sequence of Mentored Teaching Experiences (MTEs) that includes both teaching alongside faculty mentors in lecture courses

and teaching discussion sections. The MTE represents a collaborative mentoring process between graduate students and faculty members to reflect on and interpret disciplinary knowledge; to find multiple ways to represent disciplinary content; to adapt content to students' abilities and prior knowledge; and to develop methods to assess and improve the teaching and learning process in an academic discipline. Upon recommendation from a student's primary advisor and with the approval of the Director of Graduate Studies and the Director of Undergraduate Studies, that training should usually culminate with an opportunity either to teach an independent course (at the 1000 or 2000 level, usually relating to a student's dissertation research) or to participate in a Mentored Professional Experience.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

History's PhD preparatory engagement includes two required activities:

1. The Center for Teaching & Learning Orientation (to be taken the first summer/August before their first AI)
2. A department-based pedagogy workshop in the summer of year two (by which point they will have completed two semesters worth of AI and will have enough experience both to reflect on and plan improvements in their pedagogical strategy). Each graduate student would satisfy the requirements of this second Preparatory Engagement 1) by participating in group discussion to share best practice; and 2) by drafting, evaluating, and revising a teaching philosophy statement.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

History requires five AI engagements in years 2, 3, and 4. An AI for 10 MER units will be expected to have the following duties, which will be discussed and agreed upon with the faculty before the start of the semester:

- Preparing and designing course materials
- Developing and grading quizzes, exams, and other assignments (including mid-term and final papers)
- Occasional guest lecturing in class
- Holding office hours
- Leading a discussion section
- Providing logistical support

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Pathway #1

ASGS 8010	Take five times

Pathway #2

ASGS 8010	Take four times
ASGS 8020	Take one time

Pathway #3

ASGS 8010	Take four times
ASGS 8120	Take one time

Optional Activity: Professional Intensive Pathway (PIP)

The PIP is an optional pathway for those students whose career interests lie outside of academia or who want to benefit from mentored professional experiences (MPEs). An MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the PIP will not receive compensation.

To complete the MPE assignment, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (8120) for the semester of engagement. History allows the PIP in the Spring of year four or Fall of year five. The PIP is allowed and encouraged if the student would prefer an MPE to teaching a class of their own design under the TIP.

Optional Pathway

ASGS 8120	Take one time

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

History's TIP is one MIT engagement as the primary instructor or co-instructor of a course under the mentorship of a faculty member. Students and mentors complete a mentorship plan prior to the start of the TIP/MIT. Students register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for the semester of engagement. History allows the TIP in spring of year 4 or fall of year 5.

Optional Pathway

ASGS 8020

Take one time

Jewish, Islamic, and Middle Eastern Studies

Jewish, Islamic, and Middle Eastern Studies is an academic department, unique in North America, in which Jewish Studies and Islamic Studies are integrated. It is an interdisciplinary department with the purpose of allowing students to explore the historical experience; the literary, religious, and cultural expression; and the political and material life of the Jewish, Islamic, and Middle Eastern civilizations. Whether students favor the study of language, literature, religion, history, or politics, they will find a way to deepen their appreciation of these complex and diverse societies and cultures in our courses. Students will also be encouraged to explore the interaction of Jews and Muslims with neighboring societies and cultures in the Middle East, Europe, North Africa, and other parts of the world.

The department offers both a **Master of Arts in Jewish Studies** and a **Master of Arts in Islamic and Near Eastern Studies**.

The department does not currently offer a home-based PhD program. Students who would like to pursue a PhD in one of the fields of Jewish Studies or Islamic and Near Eastern Studies may do so under the auspices of a PhD-granting department or program (e.g., History, Anthropology, Comparative Literature and Thought) in cooperation with participating faculty from Jewish, Islamic, and Middle Eastern Studies. In such instances, the prospective student should apply directly to the appropriate disciplinary department or program at Washington University.

Phone: 314-935-8567
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Faculty

Chair

Jonathan Judaken

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PhD, University of Massachusetts, Amherst

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PhD, L'École des Hautes Études en Sciences Sociales (EHESS)

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MA, Patna University

David H. Warren

Lecturer of Middle East Studies and Arabic

PhD, University of Manchester

Noa Weinberg

Lecturer of Hebrew

MA, Tel Aviv University

Hayrettin Yücesoy

Professor of Arabic and Islamic Studies

PhD, University of Chicago

Degree Requirements

- Islamic and Near Eastern Studies, MA (p. 321)
- Jewish Studies, MA (p. 323)

Courses

Courses include the following:

- Arabic (p. 317)
- Hindi (p. 317)
- Jewish, Islamic, and Middle Eastern Studies (p. 317)

Arabic

ARAB 5000 Independent Work

This course is for independent study for seniors.

Credit 6 units.

Typical periods offered: Fall, Spring

ARAB 5001 Seminar & Practicum in Language Training

Seminar includes faculty lectures and student reports on theories and methods of teaching less-commonly taught languages, such as Arabic, Chinese, Japanese, Modern Hebrew, Persian and Turkish. The practicum includes classroom teaching and observation in the language of student's specialization with supervision by the relevant language section head. Prerequisite, open only to graduate students in the Department or instructor's permission.

Credit 3 units.

Typical periods offered: Spring

ARAB 5710 Topics in Modern Arabic Literature in Translation

Modern Arabic narratives read in English translation foregrounding themes such as the conflict between tradition and modernity, civil war, poverty, alienation, religion and politics, and changing gender roles.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: ETH, HUM EN: H

Hindi

HINDI 5000 Religion and Culture in South and Southeast Asia

Although it is now common to differentiate between South and Southeast Asia, historically these regions have often been conceptualized as part of a single geographical area. Known as the (East) Indies, this area is marked by a rich history of (earlier) Hindu and Buddhist influences, as well as (later) Islamic and Christian influences. The present course will take an in-depth look at the four aforementioned religious traditions, and examine how they have shaped local forms of culture in premodern and modern times. Students will be introduced to host of phenomena in South and Southeast Asian societies, including religious worship, education, law, traditional governance, colonial governance, art, architecture, economic production, kinship, gender, and sexuality. Countries to be studied in the course include India, Pakistan, Sri Lanka, Thailand, Myanmar, Indonesia, Malaysia, the Philippines, and Papua New Guinea.

Credit 3 units. A&S IQ: HUM, LCD, SC BU: ETH, HUM, IS EN: H

Jewish, Islamic, and Middle Eastern Studies

JIMES 5000 Independent Work in Jewish, Islamic and Near Eastern Studies

Prerequisites: Senior standing and permission of the chair of the Jewish, Islamic, and Middle Eastern Studies Program.

Credit 6 units.

Typical periods offered: Fall, Spring

JIMES 5004 Capstone Seminar

The capstone course for Jewish, Islamic, & Near Eastern Studies majors, Arabic majors, and Hebrew majors. The course content is subject to change.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

JIMES 5007 Biblical Law and the Origins of Western Justice

This course will explore how law developed from the earliest periods of human history and how religious ideas and social institutions shaped law. The course will also illuminate how biblical law was influenced by earlier cultures and how the ancient Israelites reshaped the law they inherited. It will further analyze the impact of biblical law on Western culture and will investigate how the law dealt with those of different social classes and ethnic groups, and we will probe how women were treated by the law.

Credit 3 units. A&S IQ: HUM, LCD BU: ETH, HUM EN: H

Typical periods offered: Spring

JIMES 5013 Kings, Priests, Prophets, and Rabbis: The Jews in the Ancient W

We will trace Israelite and Jewish history from its beginnings in the biblical period (circa 1200 BCE) through the rise of rabbinic Judaism and Christianity until the birth of Islam (circa 620 CE). We will explore how Israel emerged as a distinct people and why the rise of the imperial powers transformed the political, social, and religious institutions of ancient Israel. We will illuminate why the religion of the Bible developed into rabbinic Judaism and Christianity and how rabbinic literature and institutions were created.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: BA, HUM EN: H

Typical periods offered: Fall, Spring

JIMES 5023 Jewish Christian Relations: A Multimedia History

This advanced course explores the complex history of Jewish-Christian relations from the Gospels to the present, examining pivotal texts, images, and works of art that have shaped inter-religious dynamics. Students will analyze theological, cultural, and political interactions, focusing on moments of conflict, coexistence, and mutual influence. Through close reading, visual analysis, and discussion, the course will highlight how art and literature reflect and challenge evolving perceptions. This seminar will foster a nuanced understanding of Christian-Jewish interactions through history as well as their role in shaping modern societies.

Credit 3 units.

Typical periods offered: Fall, Spring

JIMES 5036 Antisemitism: History, Causes, Consequences

Why do people hate other people? Why have religion, race, gender, ethnicity and so on led to sectarian violence with terrifying regularity throughout history? Focused on antisemitism from Biblical times to today, this class will grapple with those questions. Please note: L75 5035 is intended for graduate students only.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: BA, HUM EN: H

Typical periods offered: Fall

JIMES 5043 Race and Ethnicity in the Middle East and North Africa

This seminar explores formations, articulations, and legacies of race in the Middle East and North Africa. The main purpose is to acquaint students with different theories and methodological approaches to studies of race and racialization in the region. Given the large scope of the topic, the course will mainly focus on Egypt and Sudan, as well as the Arabian Peninsula and Persian Gulf. In dialogue with a transnational body of scholarship, political theory, as well as artistic and literary production, we will read about the following set of topics: slavery and abolition; race and racialization; empire and colonialism; third world-ism and nationalism; revolution and solidarity; ethnicity and nationality; migration and minorities. By studying how peoples of the region have debated issues of race and racialization, from the Abbasid era to the contemporary moment, we come to realize the legibility and urgency of race as an analytics in Middle East studies. In considering pre-modern and modern articulations of race across the region, we begin to understand how race has functioned as a technology of power and hierarchization, and its intersectional role in forming categories of ethnicity, nationality, or even gender and sexuality. This section is intended for graduate students only. Undergraduate students should enroll in L75 4043.

Credit 3 units.

Typical periods offered: Fall

JIMES 5082 From the Temple to the Talmud: The Emergence of Rabbinic Judaism

This course offers a survey of the historical, literary, social, and conceptual development of Rabbinic Judaism from its emergence in late antiquity to the early Middle Ages. The goal of the course is to study Rabbinic Judaism as a dynamic phenomenon -- as a constantly developing religious system. Among the topics to be explored are: How did Judaism evolve from a sacrificial cult to a text-based religion? How did the Rabbis emerge as a movement after the destruction of the Second Temple and how could they replace the old priestly elite? How did Rabbinic Judaism develop in its two centers of origin, Palestine (the Land of Israel) and Babylonia (Iraq), to become the dominant form of Judaism under the rule of Islam? How did Jewish ritual and liturgy develop under Rabbinic influence? How were the Rabbis organized and was there diversity within the group? What was the Rabbis' view of women, how did they perceive non-Rabbinic Jews and non-Jews? As Rabbinic Literature is used as the main source to answer these questions, the course provides an introduction to the Mishnah, the Palestinian and Babylonian Talmuds, and the Midrash-collections -- a literature that defines the character of Judaism down to our own times. All texts are read in translation.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

JIMES 5183 The Jews of North Africa

This course examines the colonial and postcolonial experiences of Jews living in North Africa (mainly Algeria, Morocco, Tunisia, Libya and Egypt) in the context of the region's connections with and relationships to the European powers in the 19th and 20th centuries. We will focus on how the intrusion of foreign powers disrupted and shifted long-standing relationships between Jews and their non-Jewish neighbors, particularly the Muslim populations. We will also explore changes that occurred within the Jewish community as Jews negotiated their place within the new European Imperial system and its subsequent dismantling. Students will have the opportunity to engage with European ideas of regenerating North African Jews living under Ottoman Rule, the changing political and social statuses of Jews throughout the French and British regions, the changing relationship between Jews and their non-Jewish neighbors, the rupture caused by both World Wars, and how Jews coped with and responded to the dismantling of European empires and the birth of nation-states in the region, including Israel.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: BA, HUM, IS EN: H

Typical periods offered: Spring

JIMES 5184 A Rainbow Thread: A History of Queer Identities in Judaism and Islam

The notion that gender and sexuality minorities are forbidden or simply do not exist within traditional Judaism and Islamic traditions is an assumption that has been questioned in recent years. For these scholars and activists, it is not up for debate whether someone can be queer and Jewish or queer and Muslim. Therefore, what follows is an exploration of how to resurrect gender non-conforming interpretations of religious texts and rediscover the spectrum of gender and sexual identities that have always existed within Judaism and Islam. The course is divided into three parts. First, we will examine the religious textual traditions of both faiths to establish the space for queer identities in both the Qur'an and Torah as well as the traditions of Hadith and Talmud. Second, we will study key communities such as medieval Iberia, the Ottoman Mediterranean, Hasidic communities in Eastern Europe, Qajar Iran, and the colonial empires of the Middle East. This survey will show the influence of European Christian dominance had (or did not have) on the evolution of Jewish and Islamic gender and sexual norms from pre-modern times through the 20th century. Finally, we will examine the 21st century by reading the memoirs



of trans muslims and trans Jews in order to analyze the ways in which contemporary queer jewish and islamic individuals frame their experiences and tell their stories of faith with agency, in their own words.

Credit 3 units. A&S IQ: HUM, LCD, SC, WI Arch: HUM Art: HUM BU:

HUM EN: H

Typical periods offered: Spring

JIMES 5274 Introduction to Israel Studies

An exploration of Israel in the Jewish experience from antiquity to modernity and in the history and culture of the Middle East. Special attention will be paid to the modern state of Israel and current issues in its politics, economy, and society. L75 5273 is intended for graduate students only.

Credit 3 units. A&S IQ: HUM BU: HUM, IS EN: H

JIMES 5410 Jews and American Popular Culture

History of the Jews in North America from the colonial era to the present. Close reading of primary sources, with an emphasis on the central issues and tensions in American Jewish life; political, social, and economic transformations; and religious trends.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

JIMES 5455 Mesopotamian Mythology: Stories From Ancient Iraq

In this course we will read, explore, and interpret various ancient myths originating from the fertile crescent, especially ancient Iraq, between the years 2500 and 400 BCE. The Epic of Gilgamesh, the Enuma Elish, myths of the goddess Ishtar as well as various flood and creation accounts will be among those we read. Cultural background information will be examined to situate each myth in its ancient context. Various theories of interpreting myth will also be explored in order to appreciate the power and the many uses of these multivalent stories. Several basic questions will underlie all that we do throughout the semester: What is myth?, How should we understand the conceptualization of the category myth (in other words, How does myth work?), and Does myth still play a role in our own modern cultures?

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

JIMES 5460 Islamic Law

This course will present a general overview of Islamic law and an introduction to the study of religious legal authority, which values consensus. It will then explore the formation of the major schools of law. Next, it will debate the notions of *ijtihad* and *taqlid* and discuss how open and independent legal decisions have been in the Islamic world. It will also trace the transmission of legal knowledge in religious institutions across time and place by focusing on medieval Muslim societies and by closely examining the education of a modern-day Ayatollah. Note: L75 546 is intended for graduate students only.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: ETH, HUM EN: H

Typical periods offered: Fall

JIMES 5490 Yiddishkayt: Yiddish Literature in English Translation

This course will trace the emergence, development, flourish, and near-decline of Yiddish literature, beginning with some of the earliest writings to appear in Yiddish in the late middle ages and early modern period, continuing with 19th-century attempts to establish a modern Yiddish literature and the 20th-century emergence of both a classical canon and a literary avant-garde, and ending with post-Holocaust attempts to retain a Yiddish literary culture in the near absence of Yiddish-speaking communities. Focusing on the role of Yiddish as the national language of Ashkenaz, the course will examine the ways in

which Yiddish literature has responded to the social conditions of European Jewish life, exploring among others the relationship between Yiddish and the non-Jewish cultures in which it existed, the tensions between secular trends versus religious tradition, life in the shtetl and in the metropolis, immigration from the old world to the new, and Yiddish literary responses to the Holocaust.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

JIMES 5501 Israeli Culture and Society

An examination of critical issues in contemporary Israeli culture and society, such as ethnicity, speech, humor, religious identity, and the Arab population, using readings in English translation from a variety of disciplines: folklore, literary criticism, political science, sociology, psychology, anthropology. Prerequisite: sophomore standing, or permission of instructor.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

JIMES 5511 Muhammad: His Life and Legacy

This course intends to examine the life and representations of the Prophet Muhammad from the perspective of multiple spiritual sensibilities as articulated in various literary genres from medieval to modern periods. The course is divided roughly into two parts. One part deals with the history of Muhammad and the related historiographical questions. The second part deals with the representations of Muhammad in juristic, theological, Sufi, etc. literature. Because of the availability of primary sources in English translation, there will be a healthy dose of primary source reading and analysis throughout the semester. Those students with advanced Arabic (and Persian and Turkish) skills will be encouraged to engage sources in their original language.

Credit 3 units. A&S IQ: HUM, LCD, SC BU: ETH, HUM EN: H

Typical periods offered: Fall, Spring

JIMES 5520 Subgenres and Modern Arabic Literature

Genre is a category, or to use Aristotle's term, a species. It is a category of literature, arts, music, and other forms of composition, to classify works of shared conventions, practices, and aesthetics. A typical example would be poetry. Subgenre is a single division of a given genre. In this example, epic poetry, the sonnet, haiku are subgenres of poetry. But who gets to decide what is genre, subgenre, and how? These would be some of the main questions we will address in this course. Genre theory can teach us a fascinating history of how various cultures imagine their forms of creative expression. The development of genres and subgenres reveal complex histories on who has the power to define and redefine creative expression. For example, the novel, now a dominant and prestigious global literary genre, was once considered an inferior and working-class genre in Europe over a century ago. The novel genre then developed into numerous subgenres, which are today placed under one large umbrella that is genre-fiction, such as sci-fi, fantasy, horror, gothic, mystery etc.. However, the borders between these subgenres and the larger genre itself are always contested and reformulated. Through the history of genre and subgenre, we get to learn about literary taste and literary criticism, and whose definitions and conventions have changed the course of literature and the arts, and for what reason. The dominance of the historical novel today, for example, is attributed to larger phenomenon such as decolonization, feminism, and anti-racism. The sociopolitical urge to utilize fiction to address larger issues has not only boosted the impact of the historical novel but elevated it to become a common form of the genre itself. Within this grand history, Arabic literature has a complex and rich story to tell about genre and subgenre. The most obvious example here, which will be our entry point in this course, is 1001 Nights (also known as The Nights, or The

Arabian Nights). This multi-volumed masterpiece has influenced fiction writers across the globe, especially in the past three centuries as the novel began to formulate into a modern genre. It is an exceptional work where we see a cosmology of subgenres of storytelling, narrative, but also of poetry, and in some editions, illustration and drawing, as well as translation. The Nights is often seen as the first hybrid work of literature where subgenres and forms co-exist but also blur and converge. This dynamic, revolutionary, and mobile nature of The Nights expresses the meeting of various cultures, experiences, and traditions of storytelling during the Abbasid empire. Today, it remains ever more relevant and inspiring in a cosmopolitan world. The question and history of sub/genre, however, will guide us through an exploration of modern and contemporary Arabic literature. We will get to engage with these texts thematically, stylistically, and intellectually. The aesthetic choices made in literat

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H
Typical periods offered: Spring

JIMES 5540 Anthropological and Sociological Study of Muslim Societies

This course introduces students to anthropological and sociological scholarship on Muslim societies. Attention will be given to the broad theoretical and methodological issues which orient such scholarship. These issues include the nature of Muslim religious and cultural traditions, the nature of modernization and rationalization in Muslim societies, and the nature of sociopolitical relations between Islam and the West. The course explores the preceding issues through a series of ethnographic and historical case studies, with a special focus on Muslim communities in the Middle East, Southeast Asia, and Europe. Case studies address a range of specific topics, including religious knowledge and authority, capitalism and economic modernization, religion and politics, gender and sexuality, as well as migration and globalization. Please note: L75 554 is intended for graduate students only.

Credit 3 units. A&S IQ: LCD, SSC, SC Art: SSC BU: IS EN: S UColl: CD
Typical periods offered: Fall

JIMES 5560 Research Seminar for M.A. Students in Jewish, Islamic, and Middle Eastern Studies

This course is meant to support graduate students as they write and revise their M.A. papers for defense in the spring. Central to the undertaking is serious editorial response to others' ongoing research and writing, and the refining effort of revision. Each paper will be work-shopped at least once during the semester. Students will develop their peer-review skills while making progress on their own research. Three credits. Permission of instructor.

Credit 3 units.
Typical periods offered: Fall

JIMES 5562 Islam, Gender, Sexuality

In this course, we examine discourses of gender and sexuality across historical period and geographical region. We analyze encounters with Western imperialism, investigating how gender informs social, political, religious, and family life in Islamic cultures. Our course materials include histories, ethnographies, graphic novels, and films, and we examine how these sources approach the study of Islam, gender, and sexuality through the lens of various topics: from women in the earliest years of Islam in 7th century Arabia to revolutionary Iran and American Muslim women in the 21st century. Throughout the course, we examine how notions of gender and sexuality have changed over time and played various roles in the political and social life of Muslim nations, societies, and communities. By the end of the course, students will be able to critically assess scholarly and non-scholarly (media) discussions of gender in Islam. This section is intended for Graduate students only. Undergraduates should enroll in L75 362A

Credit 3 units.
Typical periods offered: Fall

JIMES 5590 Travelers, Tricksters, and Storytellers: Jewish Travel Narratives and Autobiographies, 1100-1800

Jewish literature includes highly fascinating travel accounts and autobiographies that are still awaiting their discovery by a broader readership. In this course, we will explore a broad range of texts originating from the Middle Ages to the 19th century. They were written by both Ashkenazi and Sephardi Jews hailing from countries as diverse as Spain, Italy, Germany, and the Ottoman Empire. Among the authors were pilgrims, rabbis, merchants, and one savvy businesswoman. We will read their works as responses to historical circumstances and as expressions of Jewish identity, in its changing relationship to the Christian or Muslim environment in which the writers lived or traveled. Specifically, we will ask questions such as: How do travel accounts and autobiographies enable their authors and readers to reflect on issues of identity and difference? How do the writers produce representations of an other, against which and through which they define a particular sense of self? This course is open to students of varying interests, including Jewish, Islamic, or Religious Studies, medieval and early modern history, European or Near Eastern literatures. All texts will be read in English translation. Please note: L75 559 is intended for graduate students only.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H
Typical periods offered: Spring

JIMES 5623 Topics in Islam: Islam and Human Rights

Selected themes in the study of Islam and Islamic culture in social, historical, and political context. The specific area of emphasis will be determined by the instructor. Please note: L75 5622 is intended for graduate students only.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM, IS EN: H UColl: CD
Typical periods offered: Fall

JIMES 5660 The Sephardic Experience: 1492 to the Present

In the public perception, modern Jews divide into two subethnic groups: Ashkenazi and Sephardi, or European and Middle Eastern Jews. However, this is an oversimplification that does not do justice to the diversity and complex history of Jewish identities, which are often multilayered. Strictly speaking, Sephardi Jews trace their ancestral lines or cultural heritage to the medieval Iberian Peninsula, present-day Spain and Portugal. That said, according to some scholars, Sephardi Judaism did not even exist before the general expulsion of Spanish Jewry in 1492 and is the result of their subsequent migrations within the Mediterranean and transatlantic worlds. We will start with an introduction into the history of Spanish Jews prior to 1492, asking to what extent memories of pre-expulsion Iberia are at the heart of Sephardi identity. We will then follow the migratory path of Sephardi exiles to North Africa, Italy, the Ottoman Empire, the Netherlands, and the Americas. The questions we will explore include: in what sense did Sephardim form a transnational community? How did they transmit and transform aspects of Spanish culture in form of Ladino (Judeo-Spanish) language and literature? How did they become intermediaries between Christian Europe and the Ottoman Empire? What was their role in Europe's transatlantic expansion and the slave trade? How did Ottoman and North African Jews respond to European cultural trends in the nineteenth century and create their own forms of modernity? How did the Holocaust impact Sephardi Jews?

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H
Typical periods offered: Fall, Spring



JIMES 5730 Topics in Near Eastern Cultures: Freedom in the Middle East

The topic for this course will change each semester; the specific topic for each semester will be given in Course Listings.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

JIMES 5740 Of Dishes, Taste, and Class: History of Food in the Middle East

This course will cover the history of food and drink in the Middle East to help us understand our complex relation with food and look at our lives from perspectives we intuitively feel or by implication know, but rarely critically and explicitly reflect on. Food plays a fundamental role in how humans organize themselves in societies, differentiate socially, culturally, and economically, establish values and norms for religious, cultural, and communal practices, and define identities of race, gender, and class. This course does not intend to spoil, so to speak, this undeniably one of the most pleasurable human needs and activities, but rather to make you aware of the social meaning of food and reflect on how food shapes who we are as individuals and societies. We will study the history of food and drink in the Middle East across the centuries until the present time, but be selective in choosing themes, geographic regions, and historical periods to focus on. Please consult the instructor if you have not taken any course in the humanities. Enrollment priority given to seniors and juniors.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: BA, HUM, IS EN: H UColl: CD

Typical periods offered: Fall, Spring, Summer

JIMES 5770 History of Slavery in the Middle East

This course examines slavery and its abolition in the Middle East and North Africa from 600 C.E. to the 20th Century. It addresses slavery as a discourse and a question of political economy. We begin with an overview of slavery in late antiquity to contextualize the evolution of this practice after the rise of Islam in the region. We then examine how it was practiced, imagined, and studied under major empires, such as the Umayyads, the Abbasids, the Fatimids, the Mamluks, the Ottomans, and the Safavids. In addition to examining the Qur'anic discourse and early Islamic practices of slavery, to monitor change over time we address various forms of household, field, and military slavery as well as the remarkable phenomenon of slave dynasties following a chronological order. We discuss, through primary sources, theoretical, religious, and moral debates and positions on slavery, including religious scriptures, prophetic traditions, religious law, and a plethora of narratives from a range of genres. We highlight a distinct theme each week to focus on until we conclude our discussion with the abolition of slavery in the 19th and 20th centuries. Topics of discussion include various forms of male and female slavery, Qur'anic and prophetic discourse on slavery, legal and moral views on slavery, slavery as represented in religious literature, political, military, and economic structures of slavery, issues of race and gender as well as slave writings to reflect on the experiences of slavery from within. The goal is to enable students to understand the histories of slavery in the Middle East and eventually compare it to that of other regions and cultures, such as European and Atlantic slavery. No second language required.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: BA, HUM, IS EN: H

Typical periods offered: Fall

JIMES 5850 Topics in Jewish Studies:

Consult Course Listings for current topics. Please note: L75 585A is intended for graduate students only.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall, Spring

JIMES 5870 Topics in Jewish Studies

Consult Course Listings for current topics. Please note: L75 587 is intended for graduate students only.

Credit 3 units. A&S IQ: LCD BU: IS EN: H

JIMES 5910 Directed Writing: Thesis

Directed writing: Thesis

Credit 6 units.

Typical periods offered: Fall, Spring

JIMES 5999 Jewish & Islamic Studies Elective (GRAD)

Credit 0 units. EN: H

JIMES 7883 Master's Continuing Student Status

Master's Continuing Student Status

Credit 0 units.

Typical periods offered: Fall

JIMES 7885 Masters Nonresident

Credit 0 units.

Typical periods offered: Fall

Islamic and Near Eastern Studies, MA

The Jewish, Islamic and Middle Eastern Studies Department *will not* be accepting graduate students in the 2026-27 academic year.

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Four semesters / two years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B– is required for coursework to count toward the degree.

Master of Arts in Islamic and Near Eastern Studies

The MA in Islamic and Near Eastern Studies offers students an opportunity for dedicated interdisciplinary study of the history, literatures, and cultures of the Middle East from the Middle Ages to the present. It is designed for students who ideally have some college-level preparation in the field and who wish to deepen their expertise in preparation for a PhD program. It is also well-suited for those planning on professional careers in education, law, publishing, business, government and private agencies whose work touches upon some aspect of Islamic and Near Eastern Studies. Our faculty offer graduate-level instruction in Islamic and Middle Eastern history; Islam in world history; Islamic religion and law; the anthropology of Islam; premodern Muslim political theory and practice; Middle Eastern urban studies; and both classical and modern Arabic literatures. Admission to the MA program normally requires Arabic language proficiency equivalent to one year of college-level study. After a typical two years of courses and prior to receiving the MA degree, students will be expected to have successfully completed third-year Arabic.

Required Courses

- A minimum of 36 credits from graduate-level courses, which may include up to 6 units transferred from another institution (**Note:** First- or second-year language classes do not count toward these 36 credits.)
- The successful completion of third-year Arabic
- The ability to use Arabic source material and scholarly articles as demonstrated in at least one major seminar paper
- A second major seminar/research paper to be written either in a second seminar or in an independent study supervised by one of the faculty associated with the program (**Note:** Students have the option of writing a master's thesis in place of the two major research papers.)

- At the end of their program of study, the successful completion of an oral examination, lasting no more than one hour, based on either the two research papers submitted (and revised) for this purpose or the master's thesis

Minimum Grade Requirement: B–

Thesis Requirements/Details

Students may elect to graduate *with* or *without* writing a master's thesis. The master's thesis, which is usually about 80 to 100 pages long, represents original work of highly polished quality and is significantly more substantive than a research paper. (For guidelines, please refer to the Master's Thesis Guide issued by the Office of Graduate Studies, Arts & Sciences.) Instead of the thesis, students may decide to (re)submit and defend two significantly revised research papers written in the program, each of which should be at least 30 pages long.

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

Master's Students Planning to Graduate With a Thesis

First Year

- *End of spring semester:* Approach a primary thesis advisor (who may be, but does not have to be, the academic advisor)

Second Year

- *Fall and spring semesters:* Enroll in JIMES 5910 - Directed Writing: Thesis
- *First week of spring semester:* Confirm, in conversation with the academic advisor, a thesis committee of three readers, and schedule the oral defense
- *Friday before spring break:* Final draft of the thesis due to the thesis advisor
- *End of March to early April:* Oral defense

Master's Students Planning to Graduate Without a Thesis

Second Year

- *First week of fall semester:* Meet with advisor to discuss graduation plans
- *First week of spring semester:* Meet with advisor to determine the two research papers, select the three members of the defense committee, agree on submission deadlines, and schedule the defense
- *End of March to early April:* Oral defense

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Jewish Studies, MA

The Jewish, Islamic, and Middle Eastern Studies Department *will not* be accepting graduate students in the 2026-27 academic year.

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Four semesters / two years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A minimum grade of B– is required for coursework to count toward the degree.

Master of Arts in Jewish Studies

The MA in Jewish Studies offers students an opportunity for dedicated interdisciplinary study of the history, literatures and cultures of the Jewish people from biblical to modern times. It is designed for students who have some college-level preparation in the field and who wish to deepen their expertise in preparation for a PhD program. It is also well-suited for those planning on professional careers in areas such as education, law, publishing, business or social work. Our faculty offer graduate-level instruction in the Hebrew Bible; rabbinic Judaism and its sources; medieval, early modern, and modern Jewish history in both Europe and the Middle East; Jewish-Muslim encounters; premodern and modern Hebrew and Jewish literature; and Israeli culture. Applicants to the MA program must show Hebrew language proficiency equivalent to at least one year of college-level study. At the end of two years of courses and prior to receiving the MA degree, students will be expected to have successfully completed third-year Hebrew.

Required Courses

- A minimum of 36 credits from graduate-level courses, which may include up to 6 units transferred from another institution (**Note:** First- and second-year language classes do not count toward these 36 credits.)
- The successful completion of third-year Hebrew
- The ability to use Hebrew source material and scholarly articles as demonstrated in at least one major seminar paper
- A second major seminar/research paper to be written either in a second seminar or in an independent study supervised by one of the faculty associated with the program (**Note:** Students have the option of writing a master's thesis in place of the two major research papers; please refer to Policies and Timelines Applying to Both MA Programs on the Jewish, Islamic, and Middle Eastern Studies website.)
- At the end of the program of study, the successful completion of an oral examination, lasting no more than one hour, based on either the two research papers submitted (and revised) for this purpose or the master's thesis

Minimum Grade Requirement: B–

Thesis Requirements/Details

Students may elect to graduate *with* or *without* writing a master's thesis. The master's thesis, which is usually about 80 to 100 pages long, represents original work of highly polished quality and is significantly more substantive than a research paper. (For guidelines, please refer to the Master's Thesis Guide issued by the Office of

Graduate Studies, Arts & Sciences.) Instead of the thesis, students may decide to (re)submit and defend two significantly revised research papers written in the program, each of which should be at least 30 pages long.

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation

Master's Students Planning to Graduate With a Thesis

First Year

- *End of spring semester:* Approach a primary thesis advisor (who may be, but does not have to be, the academic advisor)

Second Year

- *Fall and spring semesters:* Enroll in JIMES 5910 Directed Writing: Thesis
- *First week of spring semester:* Confirm, in conversation with the academic advisor, a thesis committee of three readers, and schedule the oral defense
- *Friday before spring break:* Final draft of the thesis due to the thesis advisor
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Master's Students Planning to Graduate Without a Thesis

Second Year

- *First week of fall semester:* Meet with advisor to discuss graduation plans
- *First week of spring semester:* Meet with advisor to determine the two research papers, select the three members of the defense committee, agree on submission deadlines, and schedule the defense
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Latin American Studies

The **Graduate Certificate in Latin American Studies** offers Washington University students the opportunity to pursue a multidisciplinary focus on this region of the world while completing their PhD degree. The certificate combines discipline-based learning with cultural studies, thus allowing for a rigorous approach to Latin America's social, economic, and political history. At the same time, students are exposed to new theories and current debates on the topics of nation formation, governance, colonialism, development, regionalism, public health, modernization, globalization, and neoliberalism.

At the national level, programs in Latin American Studies date back to the late 1940s, when the area studies paradigm became central to the internationalization of academic focus in the context of the Cold War. Today, as globalization has made internationalization an even more pressing concern, Latin American Studies is part of a new need for the better understanding of other world regions. In fact, Latin American countries consistently play an important role within the intellectual and political spheres of the United States. Latin America is the single largest source of immigrants to the United States today. It contains the third-largest trade partner of the United States (Mexico); one of the most vibrant emergent economies in the world (Brazil); countries that have been at the core of U.S. foreign policy for decades (Colombia, Venezuela, Cuba, and the Andean region, for instance); and a vibrant population and culture that are increasingly the focus of U.S. students.

Application

Students are required to apply to be considered for the certificate program. Their applications are evaluated by the Graduate Certificate Committee. This application is submitted at the beginning of the student's doctoral courses in Arts & Sciences and requires a support letter from the director of graduate studies of the student's PhD home department or program. The chair of the Graduate Certificate Committee will forward recommendations for admission to the Office of Graduate Studies, Arts & Sciences, for final approval. All applicants to the certificate program are expected to be in good academic standing as defined by the Office of Graduate Studies, Arts & Sciences.

Contact:	Professor Martin Mejia
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Faculty

Core Faculty

Mabel Moraña

William H. Gass Professor in Arts & Sciences
PhD, University of Minnesota
(Romance Languages and Literatures)

Martin Mejia

Lecturer
PhD, Tulane University
(Latin American Studies)

Faculty Specialized in Latin America

William Acree

Professor
PhD, University of North Carolina at Chapel Hill
(Romance Languages and Literatures)

Sarah Baitzel

Assistant Professor
PhD, University of California, San Diego
(Anthropology)

J. Andrew Brown

Professor
PhD, University of Virginia
(Romance Languages and Literatures)

Rebecca Clouser

Lecturer
PhD, Indiana University
(International and Area Studies)

Brian Crisp

Professor
PhD, University of Michigan
(Political Science)

Javier García-Liendo

Associate Professor
PhD, Princeton University
(Romance Languages and Literatures)

Steven Hirsch

Professor of Practice
PhD, George Washington University
(International and Area Studies)

Stephanie Kirk

Professor
PhD, New York University
(Romance Languages and Literatures)

Tabea Linhard

Professor
PhD, Duke University
(Romance Languages and Literatures)

Diana Montaña

Assistant Professor
PhD, University of Arizona
(History)

Christina Ramos

Assistant Professor
PhD, Harvard University
(History)

Guillermo Rosas

Professor
PhD, Duke University
(Political Science)

Elzbieta Sklodowska

Randolph Family Professor in Arts & Sciences
PhD, Washington University
(Romance Languages and Literatures)

Professors Emeriti

David L. Browman

PhD, Harvard University
(Anthropology)

Pedro C. Cavalcanti

PhD, University of Warsaw
(Anthropology)

David Freidel

PhD, Harvard University
(Anthropology)

John F. Garganigo

PhD, University of Illinois
(Romance Languages and Literatures)

Joseph Schraibman

PhD, University of Illinois
(Romance Languages and Literatures)

Richard J. Walter

PhD, Stanford University
(History)

Degree Requirements

- Latin American Studies, Graduate Certificate (p. 327)

Courses

LATAM 5000 Latin American Studies: Critical and Theoretical Approaches

The course constitutes an advanced introduction to Latin American Studies and focuses on basic concepts, theories and debates that are crucial to the understanding of the field, its connections to other areas of study and its projections into global scenarios. Some of the issues that will be analyzed in this course are the historical and cultural circumstances that surrounded the emergence of area studies in general and Latin American Studies in particular, the academic, intellectual and political elements that became part of the Latin American field from its inception, the evolution of the field during and after the Cold War, and the connection of the field to theoretical approaches such as those provided by Cultural Studies, Postcolonial Studies, postmodern theories, trans-Atlantic studies, Border Studies, and the like. From a methodological perspective, the course will introduce students to the understanding of inter/multi/post-disciplinary perspectives and to debates surrounding the notions of humanism, national cultures, Third-World, Occidentalism, lettered city, cultural diversity, cultural difference, collective memory, etc. Finally, the concepts of syncretism, heterogeneity, hybridity, anthropofagia, transculturation, peripheral modernity, will be studied as key concepts for the understanding of Latin American cultural history, from colonial times to the present. Through the critical study of these topics, students will get acquainted with the critical works of some of the most important scholarship produced in/about Latin America by authors such as Enrique Dussel, Roberto Fernández Retamar, Antonio Cornejo Polar, Beatriz Sarlo, Nelly Richard, Jesús Martín Barbero, Néstor García Canclini, Angel Rama, Walter Dignolo, Martín Lienhard, Aníbal Quijano, among others.

Credit 3 units.

Typical periods offered: Spring

LATAM 5170 Nation and Desire in Latin America

The purpose of this course is to analyze the process of nation formation in Latin America, since the imaginaries of the Creole nation to the first half of the 20th century. Class discussion will encompass the study of theories on nation formation and nationalism as well as textual representations of national projects, such as Simon Bolívar's letters and discourses, selections from Facundo, Civilization and Barbarism by Domingo F. Sarmiento, selected texts by Andres Bello, Alfonso Reyes, et al, Ariel, by J. E. Rodo, Pedro Henriquez Urena's Seis ensayos en busca de nuestra expresion, Jose Vasconcelos' La raza cosmica, Jose Carlos Mariategui, Siete ensayos de interpretacion de la realidad peruana, Jose Martí's Nuestra America and other essays. Some of the main topics to be discussed are the leading role of Creole elites in the consolidation of national cultures, the marginalization of women as well as indigenous and Afro-Hispanic populations, and the role of nationalism in the shaping of modern societies. Colonialism, Occidentalism, liberalism, positivism, nationalism and modernity are some of the concepts that will be explored both theoretically and in their particular discursive usages. Finally, the concept of nation(alism) will be studied as a political/rhetorical device and as the resulting expression of agency, interest, and desire, in peripheral societies.

Credit 3 units. A&S IQ: HUM BU: HUM, IS EN: H

Typical periods offered: Spring

LATAM 5190 Media Cultures in Latin America

One of the key topics in Latin American Studies today is the history and theory of media and the way in which media cultures have shaped the nation, social subjectivities and the region's relationship to modernity. This course is a study of both the history of key audiovisual media in Latin America (print, radio, television, cinema, cybermedia) as well as of the key paradigms for media studies regarding this production. After discussing foundational concepts (media, mediation, cultural industry, popular culture), the course proceeds by in-depth studies of the role media played in different countries from the 19th century, through the different national processes of the 20th century to the present.

In doing so, the class engages with questions of technology, identity, indigenous culture, urbanization and other theoretical concerns. This course fulfills the Seminar Requirement for Latin American Studies majors and minors. PreReq L45 165D or a 300-level course on Latin American culture.

Credit 3 units.

Typical periods offered: Spring

LATAM 5235 Blackness in Brazil

Graduate Level ident for L90 4235

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: BA, HUM, IS EN: H

LATAM 5238 Introduction to Latin American Philosophy -**Contemporary Topics**

The main goal of this course is to familiarize students with a distinct philosophical corpus closely linked to the postcolonial conditions of cultural production in the Latin American region. The selected works will expose the connections between socio-political reflection and intellectual development, and the characteristics of "situated knowledge" related to questions of coloniality, interculturality, and decolonization. Different approaches to transcendental issues, to questions of temporality, subjectivity and Being, will be developed vis a vis diverse conceptions of historicity, positionality, power and resistance. Factors of race, gender, inequality and cultural diversity will be discussed as part of the introduction of issues such as indigeneity, miscegenation, creolization, archipelagic thought, and the like. Some of the authors to be studied in the course are: Leopoldo Zea, Enrique Dussel, Santiago Castro Gomez, Nelson Maldonado Torres, Aime Cesaire, Frantz Fanon, Walter Dignolo, Anibal Quijano, Bolivar Echeverria, Sylvia Wynter, Rita Segato, Maria Lugones, et al. Grad level ident L45 4238

Credit 3 units.

Typical periods offered: Spring

LATAM 5250 Latin American Studies Research

For Graduate LAS students who are completing a research project.

Credit 3 units.

Typical periods offered: Fall, Spring

LATAM 5278 The Representation and Politics of Latin American Anthropology

This course is focused on the intertwining of anthropology and representation in Latin America, an interrelation that can be traced since colonial times to the present. The specific geo-cultural characteristics of the New World invited, from the beginning, both philosophical and scientific inquiries about human nature, environmental conditions and social organization outside the domains of Western civilization. The need to represent and disseminate knowledge about the new discoveries inspired both in European and American societies reflection on identity/otherness and cultural development, as well as creative attempts to elaborate symbolic/aesthetic paradigms to capture cultural difference and intercultural relations. Issues of memory, imagination, language, cultural translation and transculturation will be discussed in the analysis of symbolic representation and construction of meaning. "Writing culture" become, as observed by James Clifford, one of the most controversial and important enterprises since it involved, both in colonial and in modern times, political assumptions, strategies of stereotyping, notions about hegemony/subalternity, and questions about the creation of the world, the nature of language and the incommensurate meaning of collective subjectivity. The course will combine critical/theoretical materials regarding anthropology as a specific cognitive approach and the analysis of literary works, films and paintings



that express issues of (self) recognition, alterity and ethnographic imagination in Latin America. Some of the literary works to be studies include narrative by J. L. Borges, M. Barnet, J. M. Arguedas, and Juan Rulfo, among others. Films include Colombian masterpiece "The Embrace of the Serpent" (2015). Paintings focus on Ecuadorian artist Oswaldo Guayasamin and Brazilian Tarsila do Amaral. The course will be conducted in English.

Credit 3 units.

Typical periods offered: Fall, Spring

LATAM 5280 Constructing the (Racial) Other: From the Colonial Caste System to U.S. Latinos

The goal of this course is to introduce students to categories and concepts related to the questions of race and ethnicity in Latin America, from colonial times to the present. The course also covers U.S. Latinos as a population of Latin American descent that presents particular characteristics connected to the issues of migration, identity politics, reterritorialization, and cultural hybridity. Based on the theoretical and critical study of problems related to colonialism, social classification, miscegenation, whiteness, discrimination, and the like, representative literary and visual materials will be discussed to illustrate the connections between race, social roles, domestic/public spaces, work, democracy and modernization. The issue of race will be analyzed in its multiple articulations to the themes of nationalism, interculturalism, migration, and symbolic representation. This course covers the seminar requirement for Latin American Studies majors.

Credit 3 units.

Typical periods offered: Fall

LATAM 557 Gender and Modernity in Latin America

The objectives of this course are twofold. The first goal is to provide students with critical and theoretical foundations for the study of gender issues in modern Latin America, through the analysis of conceptual (social, philosophical and political) texts. This part of the course entails the study of historical contexts that connect the emergence of Latin American societies to questions of imperial domination, coloniality, and modernization. The second goal of the course is to illustrate the conceptualization and the evolution of gender issues through the analysis of some representative figures and cultural processes that show differential articulation of subjects in the public sphere depending on gender. The study of the interconnections between femininity/masculinity, hetero/homosexuality and racial differences will be traced from colonial times to the present. Some instances of this critical journey will focus on topics such as gender in the new Latin American republics, gender and modernization, identity politics, human rights and intersectionality. Required readings will be critical and theoretical pieces plus some fictional works. Particular cases will be approached through analysis of political figures (Eva Peron), women artists (Frida Khalo, Ana Mendieta), literary works (Bad Girls, novel by Camila Sosa Villada; Fever Dreams by Smanta Schwebblin) and films (El cuarto de Leo (2009), and Fever Dreams (2021)).

Credit 3 units.

Typical periods offered: Spring

LATAM 5631 The Binational Condition. The Mexico-US Relationship in Mexican History and Culture.

From the 19th century onwards, the relationship between Mexico and the United States has been defined by intense tensions and contradictions. Closely intertwined by geopolitical engagement and integrations, mutual migration flows, and rich cultural exchange, both countries belong to a binational system with few equivalents around the world, which defines the lives of people living across North America. And yet, few people in the United States have access to a clear and rigorous understanding of the Southern neighbor, often leading to conflict at the political and social levels. This class explores

this historically, from the early frictions caused by territory and slavery to the binational conditions of the present. The class emphasizes the Mexican perspective of the relationship, often erased in discussions from the U.S. From this perspective, the course will engage critical moments in the history of the relationships, such as the underground railroad to the South, the Mexican American War, the Guadalupe Hidalgo treaty, and the Cold War. The class will also discuss the ways in which Mexico has influenced the United States culturally, from the impact of Mexican post-Revolutionary art in the New Deal to the rise of film directors like Alfonso Cuarón and Guillermo del Toro. Finally, the class will lay out the ways in which Mexicans and scholars of Mexican studies think about questions such as regional development, the border, immigration, and the Drug War. Prereq. L45 165D or prior coursework on Global Studies, Latin American Studies or American Studies. The course covers the seminar requirement for majors and minors in Latin American Studies.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: ETH, HUM, IS EN: H

Typical periods offered: Fall

LATAM 5692 Citizenship in the HOT Seat. Migration and Borders in Latin America

This course is an introduction to concepts, interpretations, and debates related to different forms of human mobilization across borders, particularly in contemporary Latin America. However, class discussions will expand to other scenarios in order to contextualize the experience and characteristics of migration today. Some of the notions to be analyzed in connection to this topic are freedom of movement, citizenship, inequality, the labor market, borders, territoriality, and national security. Borders will be studied as material constructions (i.e., walls, wire fences, technological surveillance, funnel systems, and strategies of deterrence) and as conceptual/symbolic representations. In addition to migratory movements, other phenomena such as diaspora, exile, and forced displacements will also be introduced as they have developed in Latin America. Cultural and psychological aspects related to migratory experiences -- such as the role of memory and affect, individual and collective trauma, social effects of deportation, stereotyping, the role of race and gender, and so on -- will also be considered, as they constitute integral aspects of migratory studies. The course will be conducted in English as a combination of lectures, student presentations, and collective discussions of assigned readings. Fulfills the seminar requirement for Latin American Studies majors and minors. Prerequisite: L45 165D.

Credit 3 units. A&S IQ: HUM, LCD BU: BA, HUM, IS EN: H

Typical periods offered: Fall

Latin American Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion

(graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** Units must be completed during the coursework period of the student's primary program of study.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Minimum Grade Requirements:** Students must obtain a minimum grade of B- in graduate courses for them to count toward the degree (certificate). Students are expected to maintain a cumulative grade point average of 3.0 on a 4.0 scale.

Required Courses

Students interested in earning the Graduate Certificate in Latin American Studies must complete 15 graduate units; 6 of those units may also count toward the PhD requirements with the prior approval of the PhD home department director of graduate studies. The graduate certificate is awarded concurrently with the PhD degree. Students in the Latin American Studies graduate certificate program must fulfill all requirements of the PhD required by their respective home departments and the Office of Graduate Studies, Arts & Sciences, in addition to the following certificate requirements:

15 Graduate Credits

- 3 credits from one Latin American Studies program core course
- 3 credits from one 5000-level course from the Latin American Studies core program
- 9 credits from three Latin American Studies program-related courses in at least two departments or schools outside the student's major department

Other Requirements

- Students must have proven proficiency in Spanish or Portuguese in accordance with the guidelines established by the Department of Romance Languages and Literatures.
- Students must spend at least one summer abroad conducting research in Latin American Studies.
- Students must participate actively in the Latin American Colloquium for at least one semester. This participation is to include the presentation of a research paper, which should ideally result from the summer research mentioned above.

Contact: Professor Martin Mejia
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Website: <http://lasprogram.wustl.edu>

Liberal Arts

The **Master of Liberal Arts (MLA)** program fosters intellectual breadth through courses that address a broad range of cultural issues from different academic perspectives. Students may explore questions of identity through art, literature, and religion. They may analyze the politics of race in fiction, historical documents, the visual arts, and music. They may debate ethical choices presented by fiction writers, jurists, philosophers, and scientists from antiquity through to the present. MLA seminars examine literary, artistic, and cinematic masterpieces; historic moments of discovery and change; traditions of thought; cultural differences; and civic responsibilities.

MLA students sharpen their thinking about contemporary values and choices through courses that ask them to reflect on the individual's relationship to society, technology, and the spread of ideas, challenges to freedom, inspiration, and creativity.

Students pursue course work and independent research with Washington University scholars from a number of academic disciplines, including architecture, art, film, history, literature, music, philosophy, religion, and science.

The MLA program emphasizes critical thinking and inquiry, close reading, intensive writing, and problem solving, all of which are hallmarks of a liberal arts education and essential skills for a range of professional contexts.

Contact: Dr. Karen Skinner, Program Coordinator
Email: k.skinner@wustl.edu

Degree Requirements

- Liberal Arts, MLA (p. 328)

Liberal Arts, MLA (Part-Time)

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 units
- **Degree Length:** 3 years maximum. Students currently enrolled in the Master of Liberal Arts program have until May 2027 to complete all degree requirements.

Master of Liberal Arts

Required Courses

Students complete 30 units total, including at least 15 units of core MLA interdisciplinary seminars and a final research project that typically earns 3 credits.

Core MLA Seminars

The MLA program consists of seminars that introduce students to the methods and questions of different disciplines. These seminars cover a wide variety of topics and issues.

Some students take all required courses in the seminars that are designed specifically for the MLA program; others augment a particular interest by taking related courses drawn from different departments with MLA program approval.

Final Project

A 3-credit final research project, developed under the supervision of an approved instructor, is required for the Master of Liberal Arts degree. This project presents an opportunity for the student to independently and extensively explore an area of personal interest; it must be completed at the conclusion of a student's coursework. Under special circumstances and with permission, some students complete a final project that comprises two semesters of research and writing for 6 units of credit.

Contact: Dr. Karen Skinner, Program Coordinator
Email: k.skinner@wustl.edu

Mathematics

The Department of Mathematics offers one master's degree in mathematics and one doctoral degree in mathematics. The areas of study for mathematics include algebra, algebraic geometry, real and complex analysis, differential geometry, and topology. Because it is difficult to make up coherent programs for students entering in the middle of the year, students are ordinarily admitted only in the fall.

When they first arrive, graduate students have the opportunity to share common concerns and to become acquainted. One of the most attractive features of our program is the friendly and supportive atmosphere that develops among our graduate students. Advanced

courses in the Washington University Mathematics Department can build on the common background shared by all students. As a result, these courses are richer and nearer to the level of PhD work than typical advanced courses.

Students typically complete the PhD program in five years. A student who comes to Washington University with advanced preparation may finish in less time. On the other hand, some students find that it is advisable for them to take preparatory math courses before attempting the qualifying courses. In special cases, the time schedule may be lengthened accordingly. Each student should plan to develop a close relationship with their thesis advisor so that the advisor may have a realistic idea of the student's progress.

Graduate study in mathematics is not for everyone. Entering students usually find that the time and effort required to succeed goes well beyond anything they encountered as undergraduates. Success requires both ample mathematical ability and the determination to grapple with a subject for many days or weeks until the light of understanding shines through, and the experience can be daunting. Those who continue in their studies are largely those for whom the pleasure of attaining that understanding more than compensates for the required effort. For such persons, the life of a mathematician can be richly rewarding.

Email: Matt Kerr, Director of Graduate Studies (matkerr@wustl.edu), or Mary Ann Stenner (stenner@wustl.edu)

Phone: 314-935-6760

Website: <https://math.wustl.edu/graduate>

Faculty

Chair

Brett Wick

Robert G. and Maxine W. Scheibe Professor of Mathematics

PhD, Brown University

Complex analysis; harmonic analysis; operator theory; several complex variables

Director of Graduate Studies

Matt Kerr

Professor

PhD, Princeton University

Algebraic geometry; Hodge theory

Director of Undergraduate Studies

Xiang Tang

Professor
PhD, University of California, Berkeley
Symplectic geometry; noncommutative geometry; mathematical physics

Associate Director of Undergraduate Studies

Blake Thornton

Teaching Professor
PhD, University of Utah
Geometric topology

Department Faculty

Roya Beheshti Zavareh

Professor
PhD, Massachusetts Institute of Technology
Algebraic geometry

Alan Chang

Assistant Professor
PhD, University of Chicago
Geometric measure theory; harmonic analysis

Quo-Shin Chi

Professor
PhD, Stanford University
Differential geometry

Aliakbar Daemi

Associate Professor
PhD, Harvard University
Gauge theory; low-dimensional topology; symplectic geometry

Parker Evans

William Chauvenet Postdoctoral Lecturer
PhD, Rice University
Differential geometry

Renato Feres

Professor
PhD, California Institute of Technology
Differential geometry; dynamical systems

Ben Foster

William Chauvenet Postdoctoral Lecturer
PhD, Stanford University
Elliptic PDEs; harmonic analysis; geometric measure theory

Steven Frankel

Associate Professor
PhD, University of Cambridge
Geometric topology; dynamics

Ron Freiwald

Professor Emeritus
PhD, University of Rochester
General topology

Gary R. Jensen

Professor Emeritus
PhD, University of California, Berkeley
Differential geometry

Silas Johnson

Senior Lecturer
PhD, University of Wisconsin–Madison
Algebraic number theory; arithmetic statistics

Gregory Knese

Professor
PhD, Washington University
Complex function theory; operators; harmonic analysis

Steven G. Krantz

Professor Emeritus
PhD, Princeton University
Several complex variables; geometric analysis

N. Mohan Kumar

Professor Emeritus
PhD, Bombay University
Algebraic geometry; commutative algebra

Carl Lian

Assistant Professor
PhD, Columbia University
Algebraic geometry; combinatorics

Hsin-Chieh Liao

William Chauvenet Postdoctoral Lecturer
PhD, University of Miami
Algebraic, enumerative and topological combinatorics

Henri Martikainen

Associate Professor
PhD, University of Helsinki, Finland
Harmonic analysis; geometric measure theory

John E. McCarthy

Spencer T. Olin Professor of Mathematics
PhD, University of California, Berkeley
Analysis; operator theory; one and several complex variables

Ilyas Mustapha

Postdoctoral Lecturer
PhD, Kansas State University
Computational and theoretical mechanics; numerical analysis; scientific machine learning; variational inequalities

Charles Ouyang

Assistant Professor
PhD, Rice University
(Higher) Teichmüller theory; Riemann surfaces; harmonic maps and minimal surfaces

Martha Precup

Associate Professor
PhD, University of Notre Dame
Applications of Lie theory to algebraic geometry and the related combinatorics

Donsub Rim

Assistant Professor
PhD, University of Washington
Applied mathematics

Rachel Roberts

Elinor Anheuser Professor of Mathematics
PhD, Cornell University
Low-dimensional topology

Karl Schaefer

Senior Lecturer
PhD, University of Chicago
Algebraic number theory

Jack Shapiro

Professor Emeritus
PhD, City University of New York
Algebraic K-theory

John Shreshian

Professor
PhD, Rutgers University
Algebraic and topological combinatorics

Yanli Song

Associate Professor
PhD, Pennsylvania State University
Noncommutative geometry; symplectic geometry; representation theory

Ari Stern

Professor
PhD, California Institute of Technology
Geometric numerical analysis; computational mathematics

Brandon Sweeting

Postdoctoral Lecturer
PhD, University of Cincinnati
Harmonic analysis; operator theory

Mladen Victor Wickerhauser

Professor
PhD, Yale University
Harmonic analysis; wavelets; numerical algorithms for data compression

Edward N. Wilson

Professor Emeritus
PhD, Washington University
Harmonic analysis; differential geometry

David Wright

Professor Emeritus
PhD, Columbia University
Affine algebraic geometry; polynomial automorphisms

Degree Requirements

- Mathematics, Accelerated BA/MA (p. 334)
- Mathematics, MA (p. 335)
- Mathematics, PhD (p. 336)

Courses

MATH 5011 Introduction to Analysis

The real number system and the least upper bound property; metric spaces (completeness, compactness, and connectedness); continuous functions (in $\mathbb{R}^n$; on compact spaces; on connected spaces); $C(X)$ (pointwise and uniform convergence; Weierstrass approximation theorem); differentiation (mean value theorem; Taylor's theorem); the contraction mapping theorem; the inverse and implicit function theorems. Prerequisite: Math 310 or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

MATH 5012 Introduction to Lebesgue Integration

Riemann integration; measurable functions; measures; Lebesgue measure; the Lebesgue integral; integrable functions; L^p spaces; modes of convergence; decomposition of measures; product measures. Prerequisite: Math 4111 or permission of the instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

MATH 5015 Introduction to Fourier Series and Integrals

The basic theory of Fourier series and Fourier integrals including different types of convergence. Applications to certain differential equations. Prerequisites: Math 4111 or permission of instructor.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

MATH 5016 Complex Variables

Analytic functions, elementary functions and their properties, line integrals, the Cauchy integral formula, power series, residues, poles, conformal mapping and applications. Prereq: Math 310 and (Math 318 or Math 4111), or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

MATH 5021 Topology I

An introduction to the most important ideas of topology. Course includes necessary ideas from set theory, topological spaces, subspaces, products and quotients, compactness and connectedness. Some time is also devoted to the particular case of metric spaces (including topics such as separability, completeness, completions, the Baire Category Theorem, and equivalents of compactness in metric spaces). Prerequisite: Math 4111 or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

MATH 5022 Topology II

A continuation of Math 4171 featuring more advanced topics in topology. The content may vary with each offering. Prerequisite: Math 4171, or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

MATH 5031 Linear Algebra

This course is an introduction to the linear algebra of finite-dimensional vector spaces. It includes systems of equations, matrices, determinants, inner product spaces, and spectral theory. Prerequisite: Math 310 or permission of instructor. Math 309 is not an explicit prerequisite, but students should already be familiar with such basic topics from matrix theory as matrix operations, linear systems, row reduction, and Gaussian elimination. (Material on these topics in early chapters of the text will be covered very quickly.)

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall, Spring

MATH 5032 Modern Algebra

Introduction to groups, rings, and fields. Includes permutation groups, group and ring homomorphisms, field extensions, connections with linear algebra. Prerequisite: Math 310, Math 429 or permission of the instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

MATH 5051 Numerical Applied Mathematics

Computer arithmetic, error propagation, condition number and stability; mathematical modeling, approximation and convergence; roots of functions; calculus of finite differences; implicit and explicit methods for initial value and boundary value problems; numerical integration; numerical solution of linear systems, matrix equations, and eigensystems; Fourier transforms; optimization. Various software packages may be introduced and used. Prerequisites: Math 217 or 312, Math 309, Math 310 and CSE 131 (or other computer background with permission of the instructor).

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

MATH 5052 Topics in Applied Mathematics

Topic may vary with each offering of the course. Prerequisite: CSE 131 and, Math 449, or permission of the instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall, Spring

MATH 5056 Topics in Financial Mathematics

An introduction to the principles and methods of financial mathematics, with a focus on discrete-time stochastic models. Topics include no-arbitrage pricing of financial derivatives, risk-neutral probability measures, the Cox-Ross-Rubenstein and Black-Scholes-Merton options pricing models, and implied volatility. Prerequisites: Math 233, Math 3200, Math 310 or permission of instructor.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Fall

MATH 5057 The Mathematics of Quantum Theory

An introduction to the mathematical foundations of quantum theory aimed at advanced undergraduate/beginning graduate students in Mathematics and Engineering, although students from other disciplines are equally welcome to attend. Topics include: the mathematical postulates of quantum theory and simple physical systems, spectral theory of self-adjoint operators, rudiments of Lie groups, Lie algebras and unitary group representations, elements of quantum probability and quantum information theory. Prerequisites: Linear algebra at the level of Math 429 or equivalent, multivariate calculus at the level of Math 318, and basic probability theory at the undergraduate level such as Math 493 or instructor's permission.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

MATH 5090 Teaching Seminar

Principles and practice in the teaching of mathematics at the college and university level. Prerequisite: graduate standing, or permission of instructor.

Credit 1 unit.

Typical periods offered: Fall, Spring

MATH 5095 Mathematical Professional Development

This course includes topics on professional development and responsible conduct of research. Prerequisites: none.

Credit 1 unit.

Typical periods offered: Fall

MATH 5121 Complex Analysis I

An intensive course in complex analysis at the introductory graduate level. Math 5021 and Math 5022 form the basis for the Ph.D. qualifying exam in complex analysis. Prerequisite: Math 4111, 4171 and 4181, or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall

MATH 5122 Complex Analysis II

Continuation of Math 5021. Prerequisite, Math 5021 or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

MATH 5151 Measure Theory and Functional Analysis I

Introductory graduate level course including the theory of integration in Euclidean and abstract spaces, and an introduction to the basic ideas of functional analysis. Math 5051 and Math 5052 form the basis for the Ph.D. qualifying exam in real analysis. Prerequisites: Math 4111, 4171, and 4181, or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall

MATH 5152 Measure Theory and Functional Analysis II

Continuation of Math 5051. Prerequisite: Math 5051 or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

MATH 5190 Topics in Analysis

This course will focus on the interplay between operator theory and complex analysis, in one and several variables.

Credit 3 units.

Typical periods offered: Fall, Spring

MATH 5193 Topics in Complex Variables

Selected topics in complex variables

Credit 3 units.

Typical periods offered: Fall

MATH 5195 Harmonic Analysis

Math 519 will be an advanced course in harmonic analysis. Topics covered include the basics of the theory of Calderon-Zygmund operators, Maximal function, and Littlewood-Paley Theory. Special emphasis will be placed upon the connections and differences between one parameter and multiparameter harmonic analysis.

Credit 3 units.

Typical periods offered: Fall

MATH 5197 Functional Analysis

Course description TBD.

Credit 3 units.

Typical periods offered: Fall

MATH 5221 Geometry/Topology I: Algebraic Topology

An introductory graduate-level course in algebraic topology, including fundamental groups, covering spaces, homology, and cohomology. Prerequisites: undergraduate courses in abstract algebra and point-set topology or permission from the instructor. Replaces 5043.

Credit 3 units.

Typical periods offered: Fall

MATH 5222 Geometry/Topology II: Differential Topology

An introductory graduate-level course in the topology of smooth manifolds and vector bundles. Prerequisites: Math 5045 (GT I: Algebraic Topology) or permission from the instructor. Replaces 5041.

Credit 3 units.

Typical periods offered: Spring

MATH 5223 Geometry/Topology III: Differential Geometry

An introductory graduate-level course in the geometry of smooth manifolds and vector bundles. Prerequisites: Math 5046 (Geometry/Topology II: Differential Topology) or permission from the instructor. Replaces 5042.

Credit 3 units.

Typical periods offered: Fall

MATH 5290 Topics in Geometry

An introduction to Geometric Group Theory, concentrating on the theory of hyperbolic groups and group boundaries.

Credit 3 units.

Typical periods offered: Fall, Spring

MATH 5293 Topics in Riemannian Geometry

A selection of topics on the geometry and dynamics of low-dimensional manifolds, including the Thurston norm and the interaction between flows and foliations.

Credit 3 units.

Typical periods offered: Fall

MATH 5295 Topics in Topology

Course description TBD.

Credit 3 units.

Typical periods offered: Fall, Spring

MATH 5331 Algebra I

An introductory graduate level course on the basic structures and methods of algebra. Detailed survey of group theory including the Sylow theorems and the structure of finitely generated Abelian groups, followed by a study of basic ring theory and the Galois theory of fields. Math 5031 and Math 5032 form the basis for the Ph.D. qualifying exam in algebra. Prerequisite: Math 430 or the equivalent, or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall

MATH 5332 Algebra II

Continuation of Math 5031. Prerequisite: Math 5031 or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

MATH 5333 Algebraic Geometry

Introduction to affine and projective algebraic varieties, the Zariski topology, regular and rational mappings, simple and singular points, divisors and differential forms, genus, the Riemann-Roch theorem.

Credit 3 units.

Typical periods offered: Spring

MATH 5390 Topics in Algebra

Selected topics in algebra vary by semester.

Credit 3 units.

Typical periods offered: Fall

MATH 5393 Topics in Algebraic Geometry

Selected topics in algebraic geometry.

Credit 3 units.

Typical periods offered: Fall, Spring

MATH 5480 Topics in Statistics

Topics vary semester to semester

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring, Summer

MATH 5510 Theory of Partial Differential Equations I

A rigorous mathematical study of topics in partial differential equations. Prerequisites: Math 5051 and Math 5052 or equivalent. Some knowledge of complex analysis will also be useful. No prior knowledge of partial differential equations is required.

Credit 3 units.

Typical periods offered: Spring

MATH 5590 Topics in Applied Mathematics

Topic and prerequisites vary with each offering of the course.

Credit 3 units.

Typical periods offered: Fall

MATH 5595 Topics in Applied Mathematics

Course description TBD.

Credit 3 units.

Typical periods offered: Fall

MATH 5910 Research

Independent Research for Credit.

Credit 3 units.

Typical periods offered: Fall, Spring, Summer

MATH 6000 Master's Continuing Student Status

Course description TBD.

Credit 0 units.

Typical periods offered: Fall, Spring

MATH 6010 Master's Nonresident

Course description TBD.

Credit 0 units.

Typical periods offered: Fall, Spring

MATH 6020 Master's Resident

Course description TBD.

Credit 0 units.

Typical periods offered: Fall, Spring

MATH 8000 Doctoral Continuing Student Status

Course description TBD.

Credit 0 units.

Typical periods offered: Fall, Spring

MATH 8010 Doctoral Nonresident

Course description TBD.

Credit 0 units.

Typical periods offered: Fall, Spring

MATH 8020 Doctoral Resident

Course description TBD.

Credit 0 units.

Typical periods offered: Fall, Spring

Mathematics, Accelerated BA/ MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 credits (with or without thesis)
- **Degree Length:** Two additional semesters
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:**
 - A grade point average of B (3.0) or better must be maintained in graduate coursework.

Mathematics, Accelerated BA/MA

General Information

The Office of Graduate Studies, Arts & Sciences, has an accelerated BA/Master's program in which highly qualified undergraduate majors can earn both the BA and MA degrees with two additional semesters of work (usually a total of five years).

This program is only for Washington University undergraduates who, if they participate, must do so in the academic year immediately following graduation (no deferments).

General Requirements

There are 36 units of coursework required and an optional thesis; 6 units may be for thesis research. The minimum residence requirement is one full academic year of graduate study. A GPA of B (3.0) or better must be maintained in the graduate courses.

Required Courses

The program allows participants to count up to 15 units of approved 4000-/5000-level coursework earned during the four years of undergraduate study (with grades of B or better) toward the MA course requirements. (The point of the 15-unit limit is to avoid having majors push so much specialized work into the BA years that they limit their opportunities to do the exploration outside of the major that an undergraduate should do.) Counting these 15 units makes it possible to finish the master's requirements in one additional year, but the program is still fast-paced and requires a lot of intense work and careful planning.

Careful course selection throughout the undergraduate program is required. Usually, the department will not recommend that the Office of Graduate Studies, Arts & Sciences, admit a major to this program unless the 15 applicable units of 4000-/5000-level work will be completed by the time of graduation. In addition, the department expects applicants to have backgrounds comparable to students admitted to the regular master's programs.

Course Requirements

There are four basic graduate course sequences in pure mathematics:

Code	Title	Units
MATH 5121	Complex Analysis I	3
MATH 5122	Complex Analysis II	3

Code	Title	Units
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3

Code	Title	Units
MATH 5221	Geometry/Topology I: Algebraic Topology	3
MATH 5222	Geometry/Topology II: Differential Topology	3
MATH 5223	Geometry/Topology III: Differential Geometry	3

Code	Title	Units
MATH 5331	Algebra I	3
MATH 5332	Algebra II	3

A candidate for the MA in Mathematics must include two of these sequences (12 units) in the required 36 units. (For the Geometry/Topology courses, a sequence consists of taking two of the following three courses: MATH 5221 Geometry/Topology I: Algebraic Topology, MATH 5222 Geometry/Topology II: Differential Topology, and MATH 5223 Geometry/Topology III: Differential Geometry.)

Each student, in consultation with their advisor, selects the remaining 24 units according to the student's interests and needs.

Thesis Requirements/Details

A maximum of 6 units may be used for thesis research.

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

Applying to the Program

Interested majors should consult with the Mathematics Director of Graduate Studies at the beginning of the fall semester of their senior year, before the add/drop deadline, to ensure that all necessary courses will be taken during the senior year. If accepted, they must begin the program in the fall semester immediately after graduation: no deferred admissions are allowed by the Office of Graduate Studies, Arts & Sciences.

International Students

For students in the United States on a visa as undergraduates, staying on to complete an MA creates a change in visa status, which will involve reapplication paperwork. Interested students should check on the details with an international student advisor at the Office for International Students and Scholars.

Phone: 314-935-6760
Website: <https://math.wustl.edu/graduate>

Mathematics, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 credits (with or without thesis)
- **Degree Length:** Minimum one academic year
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their course work, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A grade point average of B (3.0) or better must be maintained in graduate coursework.

There are 36 units of graduate-level coursework required, with or without a thesis; 6 units may be for thesis research. The minimum residence requirement is one full academic year of graduate study. If the department consents and the request is approved by the Office of Graduate Studies, Arts & Sciences, a student may transfer up to 6 units from other universities.

Required Courses

There are four basic graduate course sequences in pure mathematics:

Code	Title	Units
MATH 5121 & MATH 5122	Complex Analysis I and Complex Analysis II	6
MATH 5331 & MATH 5332	Algebra I and Algebra II	6
MATH 5221 & MATH 5222	Geometry/Topology I: Algebraic Topology and Geometry/Topology II: Differential Topology	3-6
or MATH 5223	Geometry/Topology III: Differential Geometry	
MATH 5151 & MATH 5152	Measure Theory and Functional Analysis I and Measure Theory and Functional Analysis II	6

A candidate for the MA in Mathematics must include two of these sequences (12 units) in the required 36 units. Each student, in consultation with their advisor, selects the remaining 24 units according to the student's interests and needs.

Thesis Requirements/ Details

To be eligible for the thesis option, a student must maintain a cumulative grade point average of 3.5 or above in the first two semesters (or 18 units) of course work satisfying the program requirements. A maximum of 6 units may be used for thesis research.

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

Phone: 314-935-6760
Website: <https://math.wustl.edu/graduate>

Mathematics, PhD

Phone: 314-935-6760
Website: <https://math.wustl.edu/graduate>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 units (**Note:** Remission applies for a maximum of 72 graduate-level units.)
- **Degree Length:** 5 years
 - **Note:** At least 24 units must be earned while in residence at Washington University. The student must spend at least one academic year in residence as a full-time student. The student may, with departmental permission, transfer a part of the 36 units from other universities (12 graduate credits for a PhD and only 3 credits for a master's). The typical load is 9 credit units per semester. A grade point average of B or better is required in graduate coursework and in qualifying exam courses.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.



- **Funding Note:** Graduate students in mathematics may ordinarily expect up to five years of support. Continuation of support each year is dependent upon normal progress toward the degree and the satisfactory performance of duties.
 - For the well-prepared student, "normal progress" usually means the following:
 - At the end of the second year, the student should have successfully completed the qualifying exam/course requirements.
 - At the end of the third year, the student should have completed the candidacy requirement.
 - By the end of the program, the student must complete the 36-unit course requirement, the eight qualifying exams/courses requirement, and the requirement of completing three additional courses.
- Students must complete MATH 5090 Teaching Seminar during their second and third semesters. This course prepares them for both Assistant to the Instructor work and academic teaching duties, which are integral to all scholarly activities. Each student will have departmental duties (e.g., grading, proctoring) of no more than 15 hours per week as Assistant to the Instructor.
- Students must complete MATH 5095 Mathematical Professional Development Seminar during their third semester (fall of their second year) .
- **Grade Requirement:** A grade point average of B (3.0) or better is required in graduate coursework.

No one can earn a doctorate merely by completing specified courses of study. The doctoral candidate must demonstrate high scholarship and the ability to perform significant original research in mathematics.

Please note that the sequence outlined above is for "well-prepared" students. The exact point at which any student enters the sequence depends on their ability and background. When warranted, deviation from the normal sequence is permissible, and a tailored program that fits the student's ability and background will be followed.

Qualifying Requirements/Required Courses

Students must satisfy eight out of nine "qualifying requirements" associated with the following courses:

Code	Title	Units
MATH 5121	Complex Analysis I	3
MATH 5122	Complex Analysis II	3
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3
MATH 5221	Geometry/Topology I: Algebraic Topology	3

MATH 5222	Geometry/Topology II: Differential Topology	3
MATH 5223	Geometry/Topology III: Differential Geometry	3
MATH 5331	Algebra I	3
MATH 5332	Algebra II	3

A "qualifying requirement" consists of either of the following: 1) obtaining an A– or better in the associated course; or 2) passing an independent exam for the associated course.

We will allow two exceptions to the first item wherein a B or better is permitted. The omitted course/requirement cannot be MATH 5331 Algebra I or MATH 5332 Algebra II. The second item would be an option for new students who have proven background in a subject area or for students who took a qualifying exam course and received a grade of less than a B. (**Note:** A B– is less than a B.) These exams would typically be given shortly before the beginning of a new semester. What constitutes a "pass" is at the discretion of the instructor, the Director of Graduate Studies, and the graduate committee; however, the standards should be as close as possible to the standards used in Math courses.

Students must pass three additional courses with a B– or higher chosen from our advanced topics courses (which include MATH 5333 Algebraic Geometry), independent study/research courses, or a qualifying exam course beyond the eight required above.

The courses are typically offered in the following time frame:

- Fall: Algebra I, Real Analysis, Complex Analysis I, Algebraic Topology, Differential Geometry
- Spring: Algebra II, Functional Analysis, Complex Analysis II, Differential Topology

In exceptional circumstances, departmental permission may be requested to replace required courses with suitable alternatives. Also in exceptional circumstances, such as for students who have already completed a master's degree, the student may also petition the department to waive one or more of the qualifying requirements because of work completed previously.

It is in each student's best interest to take the courses that contain the material covered in the qualifying exams as soon as their individual program allows. Sequels to these courses, at the 5000 level, are frequently offered. The qualifying exam courses are generally prerequisites to these 5000-level courses.

Additional Requirements

Course Requirements

Students must also complete MATH 5090 Teaching Seminar. This course prepares students for both Assistant to the Instructor work and academic teaching duties, which are integral to all scholarly activities. For a typical PhD student, the course is taken twice: once in the spring of the first year and again in the fall of the second year. Each student will have departmental duties (e.g., grading, proctoring) of no more than 15 hours per week as Assistant to the Instructor.

Students must also complete MATH 5095 Mathematical Professional Development.

Code	Title	Units
MATH 5090	Teaching Seminar	2
MATH 5095	Mathematical Professional Development	1

Language Requirements

All students must demonstrate proficiency in English.

If English is not the student's native language, they must pass an oral English proficiency exam with a grade of 3 or better. If the student does not score a 3 the first time they take the exam, the director of English Language Programs for Arts & Sciences will recommend that the student take one or more courses to improve reading, writing, pronunciation, listening, or speaking skills. Note that courses "recommended by ELP" are *required* by the Department of Mathematics. After the recommended courses have been completed, the student is required to retake the English proficiency exam. Once the student has demonstrated the ability to handle teaching a class (by scoring a 3 or better on the exam), they will qualify for Assistant to the Instructor or Course Instructor duties.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

The qualifying exam/course requirement consists of the completion of eight qualifying requirements as outlined above.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

The pre-candidacy requirements consist of completing the qualifying exam/course requirements and additional course requirements as well as any necessary language requirements. In addition, the student must form a preliminary thesis committee called a *Research Advisory Committee* that includes their advisor and at least two other faculty members. The pre-candidacy requirements should be completed by the end of the second year of study.

The candidacy requirement is an oral presentation and thesis proposal to be completed by the end of the third year of study. In discussion with the advisor and the preliminary thesis committee, the student will select a topic and a body of literature related to this topic. The student will prepare a one-hour oral presentation related to the topic and a two-page thesis proposal that demonstrates mastery of the selected topic. The oral presentation is designed to expedite specialized study and to provide guidance toward the thesis. The preparatory work for the thesis proposal often becomes the foundation on which the thesis is constructed.

After the student completes the candidacy requirement, work on the thesis begins.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE -

Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation and the Thesis Defense

The student's dissertation is the single most important requirement for the PhD degree. It must be an original contribution to mathematical knowledge, and it is the student's opportunity to conduct significant independent research.

It is the student's responsibility to find a thesis advisor who is willing to guide their research. Since the advisor should be part of the candidacy requirement, the student should have engaged an advisor by the beginning of the third year of study.

Once the department has accepted the dissertation (on the recommendation of the thesis advisor), the student is required to defend their thesis through a presentation accompanied by a question-and-answer period.

For information about preparing the thesis and its abstract as well as the deadlines involved, including the creation of the Research Advisory Committee and the Dissertation Defense Committee, please consult the Office of Graduate Studies, Arts & Sciences. Please use these additional relevant resources: the Doctoral Dissertation Guide, the Forms page, and the Policies and Procedures page.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

At most major universities, mathematics departments teach numerous courses that are fundamental to a variety of disciplines. Effective instruction in mathematics courses is therefore fundamental to the discipline.

Upon completion of their degree many of our graduates go on to academic positions. Our graduate program wants them to receive adequate preparation in teaching and instructional methodology so that they will be effective in the classroom at Washington University in St. Louis as well as be able to start their new positions with success.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Mathematics pedagogical preparation consists of two one-credit semester courses taken over the period of two semesters (spring of the students' first year and fall of the students' second year). These courses are taught by faculty in the department from a detailed syllabus of topics. Topics covered during the course include pedagogical issues of teaching, both general and those specific to mathematics, and administrative issues associated with teaching.

Campus resources such as the Center for Teaching and Learning (CTL) are utilized for additional information about effective teaching methodology. A key component of the course is that students must prepare a "mock" calculus lecture that is presented during the course and constructive feedback is provided. Student presentations are recorded so they can be critiqued, and further comments can be provided. Direct mentoring is provided to the students when serving in the role of Assistant to the Instructor.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Mathematics provides a planned sequence of teaching opportunities. During the students' second year of studies, they begin service in the Calculus help sessions and take on a more active teaching opportunity by serving as an Assistant to the Instructor for the calculus classes. Graduate students are assigned two to four sections of introductory calculus or statistics courses to assist with when serving as an Assistant to the Instructor.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To

complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Mathematics does not require MIT though opportunities may be available to engage in MIT to obtain 20 to 60 MER units. For graduate students further along and better prepared, as judged by the Mathematics Graduate Committee and the CTL representative, they may be assigned an MIT. Feedback on teaching and instruction is provided by the instructor of the course through observations of the graduate student and through meetings for the course.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Mathematics allows students to take 0 to 2 MPEs, which will be approved by the Director of Graduate Studies in consultation with the Graduate Committee and the Office of Graduate Studies.

A wide variety of MPEs are available, including (but not limited to) the following:

- Focused research and experience in grant administration as part of the student or advisor's grant which may involve time spent at another university with an outside mentor.
- An internship in industry or government.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Several different pathways are possible to complete the MER. The specific pathway that a student follows should be discussed with the Director of Graduate Studies. Since a student's circumstances or needs can change during the program, it is possible for a student, in consultation with the Director of Graduate Studies, to change pathways. In order to qualify to engage in MIT, students must complete preparatory engagement (two semesters of teaching seminar) and two MTEs (any combination of 5-, 10- or 15-unit MTEs are allowed). The

possible pathways are listed below. When a student is participating as an AI, they will sign up for ASGS 8010 MTE - Assistant in Instruction Experience; when they are engaging in MIT, they will sign up for ASGS 8020 MTE - Mentored Independent Teaching Experience.

Pathway #1

ASGS 8010	Take six times

Pathway #2

ASGS 8010	Take five times
ASGS 8020	Take one time

Pathway #3

ASGS 8010	Take 5 times
ASGS 8120	Take one time

Pathway #4

ASGS 8010	Take 4 times
ASGS 8020	Take one time
ASGS 8120	Take one time

Pathway #5

ASGS 8010	Take 4 times
ASGS 8020	Take two times

Pathway #6

ASGS 8010	Take 4 times
ASGS 8120	Take two times

Pathway #7

ASGS 8010	Take three times
ASGS 8020	Take one time
ASGS 8120	Take two times

Pathway #8

ASGS 8010	Take three times
ASGS 8020	Take two times
ASGS 8120	Take one time

Pathway #9

ASGS 8010	Take two times
ASGS 8020	Take two times
ASGS 8120	Take two times

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Optional Pathway #1

ASGS 8010	Take once

Optional Pathway #2

ASGS 8010	Take two times

Optional Pathway #3

ASGS 8020	Take once

Optional Pathway #4

(Not available for Pathways 2, 5, 7, 8, and 9)

ASGS 8020	Take two times

Optional Pathway #5

(Not available for Pathways 5 and 9)

ASGS 8010	Take once
ASGS 8020	Take once

Music

The Department of Music offers programs of study leading to the Doctor of Philosophy (PhD) in Music and the Master of Arts (MA) in Music, with concentrations in either musicology or music theory. Each graduate program combines a course of advanced studies in one area of music studies with supporting studies in related fields of music. The number of graduate students admitted each year is small so that each student is assured individual attention. There are traditionally close rapports and mutually supportive interactions among graduate students in all areas of study.

The **MA and PhD programs' concentrations in musicology** offer focuses in historical musicology and ethnomusicology. Department faculty interests cover all eras of European art music, American popular musics, film and theatre music, jazz, and African and African diasporic musics. Methodological approaches cover a range of

critical perspectives, placing music within its cultural and historical contexts and developing the student's ability to think and write about music and music-making. Intensive study in music theory is a required component of the programs, and diverse opportunities for performance are offered.

The **MA and PhD programs' concentrations in music theory** focus on the creative analysis and critical examination of assumptions about music and musical discourse. The graduate program prepares students to undertake research in musical analysis and in the language and methodology of music theory. Preparation includes guiding each student in developing their own modes of thought and expression. Faculty interests include improvisation and intermedia, texture and form, music cognition and computational modeling, composition, Schenker, and the interplay of text and music in German art song.

Contact: Jessica Flannigan
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Faculty

Chair

Patrick Burke
Professor
PhD, University of Wisconsin

Director of Graduate Studies

Paul Steinbeck
Associate Professor
PhD, Columbia University

Director of Undergraduate Studies

John McDonald
Lecturer
DMA, University of Missouri–Kansas City

Department Faculty

Vicente Atria
Assistant Professor
DMA, Columbia University

Todd Decker
Paul Tietjens Professor of Music
PhD, University of Michigan

Christopher Douthitt

Lecturer
MFA, Princeton University

Ben Duane

Associate Professor
PhD, Northwestern University

Lauren Eldridge Stewart

Assistant Professor
PhD, University of Chicago

Kimberly Jeong

Lecturer
DMA, Northwestern University

Amanda Kirkpatrick

Senior Lecturer
MM, University of Missouri–Columbia

Esther Viola Kurtz

Assistant Professor
PhD, Brown University

Jeffrey Kurtzman

Professor
PhD, University of Illinois

William Lenihan

Professor of Practice
BMus, University of Missouri–Columbia

Robert Snarrenberg

Associate Professor
PhD, University of Michigan

Christopher Stark

Associate Professor
DMA, Cornell University

Alexander Stefaniak

Associate Professor
PhD, Eastman School of Music

Vince Varvel

Lecturer
BM, Southern Illinois University at Edwardsville

Emeritus Faculty

Hugh McDonald

Avis H. Blewett Professor Emeritus of Music
PhD, Cambridge University

Craig Monson

Paul Tietjens Professor Emeritus of Music
PhD, University of California, Berkeley

Dolores Pesce

Avis Blewett Professor Emerita of Music
PhD, University of Maryland

Degree Requirements

- Music, MA, Music Theory Concentration (p. 347)
- Music, MA, Musicology Concentration (p. 348)
- Music, PhD, Music Theory Concentration (p. 348)
- Music, PhD, Musicology Concentration (p. 353)

Courses

MUSIC 5001 Title Elementary Technique of Electronic Music: Synth Lab

Individual and small group instruction in classical procedures and relevant electronic technology.

Credit 3 units.

Typical periods offered: Fall, Spring

MUSIC 5003 Music, Sound, and the Body

This course examines theories of the body, embodiment, and the senses as they relate to music and sound practices. Readings draw on scholarship from ethnomusicology, anthropology and geography of the senses, sound studies, dance studies, performance studies, and music cognition. If ethnomusicology is the study of people making music, this course explores how people make and experience music and sound with their bodies, through the full range of their senses. We will consider questions surrounding the ways in which musicians, audiences, listeners, and dancers perceive and experience music in their bodies and contribute to the making of sound. By centering the body, we will necessarily consider lived experience along intersecting axes of difference such as race, ethnicity, gender, sexuality, and (dis)ability. Course readings and discussions will therefore focus on the social and political affordances and limitations of body-based practices and their theorization. Case studies will include a broad range of sound-movement practices, from electronic dance music and black social dance to Sufi and Buddhist religious practices, queer taiko drumming, and deaf music-making. Over the course of the semester, students will develop their own project exploring course themes, and they will be asked to participate in music-movement workshops throughout the course. This is an upper-level/graduate-level course, so some knowledge of music and/or dance concepts is assumed, but neither previous music/dance experience nor normative bodily ability are required.

Credit 3 units.

Typical periods offered: Fall

MUSIC 5010 Independent Study

Supervised independent study in areas in which there are no course offerings. Students must submit to the department chair an outline of work to be covered and the name of the instructor to supervise the research. Prerequisites: permission of the department chair and the instructor. Refer to **section/faculty list at start of this departmental entry for faculty selections for this course.

Credit 3 units.

Typical periods offered: Fall, Spring

MUSIC 5011 Elementary Technique of Electronic Music: Synth Lab

Individual and small group instruction in classical procedures and relevant electronic technology. Prerequisite: open to music majors; to others by permission of instructor. Credit contingent upon completion of Mus 402.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

MUSIC 5020 Introduction to Musicological Research I

An introduction to research techniques, including library skills and the mechanics of scholarly writing and documentation. Prerequisite: graduate standing or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Fall

MUSIC 5022 Introduction to Musicological Research II

This course is designed to assist in both your acclimation to this music department and your navigation of the truly expansive field of music research. Together, we will explore literature across the sub disciplines of ethnomusicology, historical musicology, and music theory. Regular attendance at Music Department colloquia is expected, and where possible, readings in this course will support your engagement of the speaker series. The readings are organized with intention of exploring some of the reasons we as humans, and humans in societies, engage with musical sound. The anticipated outcome of this course is that you develop your sensibility to search for the “why.”

Credit 3 units.

Typical periods offered: Spring

MUSIC 5023 Advanced Techniques in Electronic Music: Studio Songwriting

How does the act of recording and manipulating sound change the way we write songs? How can the tones and moods of a recording interact with notes and rhythms and words? Students will look for answers through experiments in composition, collaboration, and critical listening. Topics will include beatmaking, sound collage, vocal manipulations, sampling, and virtual spaces. Formal training is not required, although students will engage with (and learn) basic music theory concepts. To apply for the course, students should request an eligibility override via Workday and [complete the application via Google Forms](#).

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

MUSIC 5030 Introduction to Popular Music Studies

This seminar offers an introduction to popular music studies from the perspective of the discipline of musicology. The course provides a background to the current state of scholarship, engages ongoing debates and methodological questions, and offers a starting point for research and teaching in this expanding area. Topics include: historiography of popular music studies, bibliography and discography, canon-making, academic and popular scholars and readers, genre definitions, interdisciplinary challenges and opportunities, approaches to institutions and technologies particular to the history of popular music (such as record labels and recording studios), and the study of mixed-media topics. The ability to read music is not required and students from across the disciplines are most welcome.

Credit 3 units.

Typical periods offered: Fall

MUSIC 5040 Notation I

This course is designed to provide students with the skills needed for transcribing the black and white mensural notation in use from the 14th through 16th centuries. Prerequisite: graduate standing or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Fall

MUSIC 5041 Notation II

This course provides students with the skills needed for transcribing polyphonic notation from the late 14th through 16th centuries, as well as lute tablature. The latter part of the course is devoted to the principles of editing 16th/17th and 18th/19th century repertoires, with sample projects. Prerequisite: Music 503 or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM

MUSIC 5050 Introduction to Schenker's Analytical Method

Heinrich Schenker's interpretive theory takes as its object the musical mind as manifested in the western European tradition of the 18th and 19th centuries. This introduction to Schenker's approach is based on close reading of Schenker's theoretical and analytical texts as well as contemporary redactions. The course also includes work in the analytical application of Schenker's ideas and systematic study of Schenker's mature theory. Prerequisite: Music 423.

Credit 3 units.

Typical periods offered: Fall

MUSIC 5051 Seminar: Schenker's Analytical Methodology

A continuation of Mus 5061. Students will refine their understanding through analysis of more complex works and continued reading in Schenkerian literature. Class time will be devoted to discussion of student analyses and of conceptual issues that arise from Schenker's analytical perspective. The final project will be a paper on a symphony movement or other piece of comparable breadth. Prerequisite: Mus 5061.

Credit 3 units.

Typical periods offered: Fall

MUSIC 5060 Introduction to the Analysis of 20th Century Music

An introduction to theory and analysis of music from the 20th-century repertoire. In-class analysis and individual assignments emphasize aural understanding and tools for modeling pitch structures in post-tonal and twelve-tone works. In the latter portion of the course focus turns toward works in which pitch structures play a smaller role. Prerequisite: Music 222 (for undergraduates) or Music 423 (for graduates).

Credit 3 units.

MUSIC 5070 Introduction to Contemporary Music Theory

An introduction to the concepts, ideologies, methods and musical issues of contemporary music theory. Intensive reading and discussion of significant writings from the 1960s to the present. Prerequisite: Graduate standing or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Fall, Spring

MUSIC 5080 Introduction to Ethnomusicology

This seminar will provide an introduction to the discipline of ethnomusicology through an examination of the historical literature and a review of recent scholarship. In keeping with the field's multidisciplinary orientation, we will observe ethnomusicology as a part of wider trends in intellectual inquiry. As such, our discussions of major issues in ethnomusicology will be informed by consideration of related fields, including anthropology, historical musicology, literary theory, folklore, and cultural studies. Seminar members will have the opportunity to explore in depth those issues that are most germane to their own research interests while gaining a broader understanding of ethnomusicology as an academic discipline.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Spring

MUSIC 5090 Music Ethnography and Fieldwork Methodologies

Ethnography and Fieldwork Methodologies in Music
Credit 3 units.

Typical periods offered: Fall

MUSIC 5104 Analysis I

A study of structural principles underlying music of all periods: motivic usage, melodic shape, varieties of texture and structure with an emphasis on fugue, variation forms and proportional forms such as rondo and sonata-allegro. Prerequisite: graduate standing or permission of instructor.

Credit 3 units.

Typical periods offered: Fall

MUSIC 5107 The Solo Song of Brahms

In-depth study in areas of special interest. Prerequisite: senior standing, graduate standing, or permission of instructor.

Credit 3 units.

Typical periods offered: Spring

MUSIC 5110 Seminar in Music of the Classic Period

This seminar will cover music from the classical period.

Credit 3 units. A&S IQ: HUM BU: HUM

MUSIC 5120 Seminar in Romantic Music

This is a seminar on music from the romantic period.

Credit 3 units. A&S IQ: HUM BU: HUM

MUSIC 5130 Selected Areas for Special Study I

This course allows students to explore special areas of music study. Topics may change from semester-to-semester.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

MUSIC 5140 Sound Theory

The word sound in this course title carries three meanings: 1) solidly made, 2) ethical, and 3) pertaining to the experience of sonic phenomenon of all sorts. The word theory indicates the discourse of philosophers, historians, and scholars (academic and popular). Among the writers who may be included in the course are: Abdurraquir, Adorno, Attali, Auslander, Barthes, Benjamin, Berlant, Biancorosso, Butler, Chion, Chow, Cook, Derrida, Donnelly, DuBois, Foucault, Kittler, Murray Schafer, Ngai, Plato, Proust, Said, Sloterdijk, and Sterne. The class will be useful to graduate students concerned with the phenomenon of sound broadly speaking.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Fall

MUSIC 5141 Analysis II

Continuation of Music 5104, concentrating on approaches to larger and more complex works of classically tonal music, including 18th-century symphonies and string quartets, late works by Beethoven, chamber music and symphonies of Brahms and symphonies of Mahler. Prerequisite: Music 5104 or permission of instructor.

Credit 0 units.

Typical periods offered: Spring

MUSIC 5150 Selected Areas for Special Study II

This course allows students to explore different areas of music studies. Topics may change from semester-to-semester.

Credit 3 units.

Typical periods offered: Fall

MUSIC 5160 Selected Areas of Special Study II

This course will cover various genres of music. Genre changes each semester

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

MUSIC 5170 Seminar in Music Theory

The Chamber Music of Brahms. Close readings of selected works using a variety of analytical approaches. Emphasis on crafting written communication of interpretive results. PREREQUISITE: Graduate standing or permission of the instructor. Credit 3 units.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Fall, Spring

MUSIC 5189 Composition, Advanced

Individual training in free composition for various media, plus group technical projects. Prerequisite: permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM

Typical periods offered: Fall

MUSIC 5190 Composition, Advanced

Individual training in free composition for various media, plus group technical projects. Prerequisite: permission of instructor.

Credit 3 units.

Typical periods offered: Spring

MUSIC 5200 Seminar in Undergraduate Teaching

This seminar will cover the teaching of undergraduate Music students.

Credit 1 unit.

MUSIC 5220 Theory Qualifying Project I

An extended, detailed analysis of a single piece. While enrolled in Music 4104, the student will choose, in consultation with the examination committee, a musical work for close analysis from either the tonal or the post-tonal repertoire. Analytical methodology should be determined in response to the issues raised by the piece. The student will prepare a lecture for a graduate-level audience, to be delivered in Music 5022. The purpose of the presentation is to demonstrate competence in intensive analysis and in the oral presentation of analytical materials.

Credit 3 units.

Typical periods offered: Fall, Spring

MUSIC 5221 Theory Qualifying Project II

A project dealing with theoretical systems designed for understanding a particular repertoire of music. The music should be drawn from the repertoire (tonal or post-tonal) not chosen for Qualifying Project I. The purpose of the project is to demonstrate familiarity, competence, and flexibility in the use of theoretical systems. In contrast with the project described in Qualifying Project I, any musical analyses should illustrate the points made about theoretical systems under consideration. Ideally this project will also demonstrate the ability to extrapolate and extend existing systems. OR A project on a more abstract methodological or speculative topic. The purpose of the project is to demonstrate an ability to address the critical and philosophical issues that form the conceptual underpinning of analytical and theoretical work.

Credit 3 units.

Typical periods offered: Fall, Spring

MUSIC 5222 Theory Qualifying Project III

A project dealing with theoretical systems designed for understanding a particular repertoire of music. The music should be drawn from the repertoire (tonal or post-tonal) not chosen for Qualifying Project I. The purpose of the project is to demonstrate familiarity, competence, and flexibility in the use of theoretical systems. In contrast with the project described in Qualifying Project I, any musical analyses should illustrate the points made about theoretical systems under consideration. Ideally this project will also demonstrate the ability to extrapolate and extend existing systems. OR A project on a more abstract methodological or speculative topic. The purpose of the project is to demonstrate an ability to address the critical and philosophical issues that form the conceptual underpinning of analytical and theoretical work.

Credit 3 units.

Typical periods offered: Fall, Spring

MUSIC 5224 Computational Models of Music Theory and Cognition

We will study computational models that simulate the perception of several aspects of music: phase structure, meter, melody, key, harmony, counterpoint, and texture. In addition to reading about and discussing these models, students will work with them directly by running them on their own. We will also spend some class time on perceptual experiments related to the models we study. Although the course will focus on models of perception, emphasis will be placed on ones that are also pertinent to music theory, and these connections will be discussed.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

MUSIC 5230 Analysis I

A study of structural principles underlying music of all periods: motivic usage, melodic shape, varieties of texture and structure with an emphasis on fugue, variation forms and proportional forms such as rondo and sonata-allegro. Prerequisite: graduate standing or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

MUSIC 5231 Graduate Keyboard Skills

Graduate Keyboard Skills prepares students to take the Keyboard Skills exam.

Credit 0 units.

Typical periods offered: Fall, Spring

MUSIC 5233 Analysis I

A study of structural principles underlying music of all periods: motivic usage, melodic shape, varieties of texture and structure with an emphasis on fugue, variation forms and proportional forms such as rondo and sonata-allegro. Prerequisite: graduate standing or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

MUSIC 5311 Black Experimental Music

Founded on the South Side of Chicago in 1965, the Association for the Advancement of Creative Musicians (AACM) united dozens of African American artists who were interested in experimental approaches to composition and improvisation. Their creative work, often described as black experimental music, would transform black-identified musical styles like jazz as well as white-identified styles of experimental concert music from which African Americans were often excluded-until the AACM intervened. In this course, we will investigate the Association's history by reading and discussing a wide range of texts about the organization, including books and articles written by AACM members themselves. We will also examine a number of important

recordings and musical scores created by AACM artists, including Muhal Richard Abrams, Fred Anderson, Anthony Braxton, Joseph Jarman, George Lewis, Nicole Mitchell, Roscoe Mitchell, and Wadada Leo Smith.

Credit 3 units.

MUSIC 5560 Soundtrack Studies: Music Voices, Noise

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

MUSIC 5701 Jazz Winds and Percussion

Credit 2 units.

Typical periods offered: Fall, Spring

MUSIC 5705 Jazz Piano

Individual Applied Music -Jazz Piano

Credit 2 units.

Typical periods offered: Fall

MUSIC 5750 Guitar

Individual Applied Music -Guitar

Credit 2 units.

MUSIC 5751 Organ

Organ

Credit 2 units.

MUSIC 5752 Piano

Individual Applied Music -Piano

Credit 2 units.

Typical periods offered: Fall, Spring

MUSIC 5753 Strings

Individual Applied Music -Strings.

Credit 2 units.

Typical periods offered: Fall, Spring

MUSIC 5754 Voice

Individual Applied Music -Voice

Credit 2 units.

Typical periods offered: Spring

MUSIC 5755 Winds and Percussion

Individual Applied Music-Winds and Percussion

Credit 2 units.

Typical periods offered: Fall, Spring

MUSIC 7000 Research in Music

(Master's level). Credit variable, maximum 6 units. Refer to **section/faculty list at start of this departmental entry for faculty selections in this course.

Credit 6 units.

Typical periods offered: Fall, Spring

MUSIC 7883 Master's Continuing Student Status

This course is for continuing students in the Music Master's program.

Credit 0 units.

Typical periods offered: Fall



MUSIC 7885 Masters Nonresident

This course is for non resident students in the Music Master's program.

Credit 0 units.

Typical periods offered: Fall

MUSIC 8000 Research in Music

(Doctoral level). Credit variable, maximum 9 units. Refer to **section/faculty list at start of this departmental entry for faculty selections in this course.

Credit 9 units.

Typical periods offered: Fall, Spring

MUSIC 8884 Doctoral Continuing Student Status

This course is for continuing students in the Music Doctoral program.

Credit 0 units.

MUSIC 8886 Doctoral Nonresident

This course is for non resident students in the Music Doctoral program.

Credit 0 units.

Music, MA, Music Theory Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** 2 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A grade of B– or better is required for courses to count toward the degree. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

The Master of Arts in Music Theory requires 36 units of graduate study. In addition, students must pass a keyboard skills exam. Students should enroll in the repeatable 0-credit course MUSIC 5231 Graduate Keyboard Skills until they have satisfied this requirement.

Required Courses

Code	Title	Units
MUSIC 5020	Introduction to Musicological Research I	3
MUSIC 5070	Introduction to Contemporary Music Theory	3
or MUSIC 5160	Selected Areas of Special Study II	
MUSIC 5104	Analysis I	3

Elective Courses

- 9 units of Theory (chosen in consultation with an advisor from the following: MUSIC 5050 Introduction to Schenker's Analytical Method; MUSIC 5051 Seminar: Schenker's Analytical Methodology; MUSIC 5070 Introduction to Contemporary Music Theory; MUSIC 5150 Selected Areas for Special Study II; MUSIC 5160 Selected Areas of Special Study II; MUSIC 5170 Seminar in Music Theory; MUSIC 5224 Computational Models of Music Theory and Cognition; MUSIC 5331)
- 6 units of Music History and Culture (chosen in consultation with an advisor from the following: MUSIC 5030 Introduction to Popular Music Studies; MUSIC 5080 Introduction to Ethnomusicology; MUSIC 5090 Music Ethnography and Fieldwork Methodologies; MUSIC 5110 Seminar in Music of the Classic Period; MUSIC 5120 Seminar in Romantic Music; MUSIC 5130 Selected Areas for Special Study I; MUSIC 5140 Sound Theory)
- 12 units of electives, within or outside Music, which may include up to 6 units of thesis research (MUSIC 7000 Research in Music) but which exclude basic foreign language instruction

Thesis Requirements/Details

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.
- All other requirements for the degree must be completed before the student may undertake the oral defense of thesis.

Contact: Jessica Flannigan
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Music, MA, Musicology Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** 2 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A grade of B– or higher is required for courses to count toward the degree. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

The Master of Arts in Musicology requires 36 units of graduate study. In addition, students must pass a keyboard skills exam. Students should enroll in repeatable 0-credit course MUSIC 5231 Graduate Keyboard Skills until they have satisfied this requirement.

Required Courses

Code	Title	Units
MUSIC 5020	Introduction to Musicological Research I	3
MUSIC 5104	Analysis I	3

Elective Courses

- 15 units of History and Culture (chosen in consultation with an advisor from the following: MUSIC 5030 Introduction to Popular Music Studies; MUSIC 5080 Introduction to Ethnomusicology; MUSIC 5090 Music Ethnography and Fieldwork Methodologies; MUSIC 5110 Seminar in Music of the Classic Period; MUSIC 5120 Seminar in Romantic Music; MUSIC 5130 Selected Areas for Special Study I; MUSIC 5140 Sound Theory)

- 6 units of Theory (chosen in consultation with an advisor from the following: MUSIC 5050 Introduction to Schenker's Analytical Method; MUSIC 5051 Seminar: Schenker's Analytical Methodology; MUSIC 5070 Introduction to Contemporary Music Theory; MUSIC 5150 Selected Areas for Special Study II; MUSIC 5160 Selected Areas of Special Study II; MUSIC 5170 Seminar in Music Theory; MUSIC 5224 Computational Models of Music Theory and Cognition; MUSIC 5331)
- 9 units of Electives, within or outside Music, which may include up to 6 units of thesis research (MUSIC 7000 Research in Music), but which exclude basic foreign language instruction

Thesis Requirements/Details

- A Title, Scope, & Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.
- A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.
- All other requirements for the degree must be completed before the student may undertake the oral defense of thesis.

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Music, PhD, Music Theory Concentration

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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.



For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 45
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A grade of B– or better is required for courses to count toward the degree. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

The PhD degree with Music Theory concentration requires a total of 45 units of graduate study: 3 units of Introduction to Musicological Research, 3 units of Analysis, 3 units of either History of Theory or Contemporary Readings in Music Theory, 6 units of qualifying projects, 3 units of independent study, 9 units of seminars or independent study in theory, 3 units of seminars or independent study in composition or theory, 9 units of music history and culture, and 6 units from outside of the Department of Music. Also required are keyboard proficiency, reading knowledge of one foreign language in which the student is not already fluent and which is directly relevant to their dissertation research, a program-defined Mentored Experience Requirement, two qualifying projects, the dissertation, and the final oral defense of the dissertation. To advance to doctoral candidacy, students must complete all coursework, qualifying exams, language requirements, and the keyboard skills exam. Students must advance to doctoral candidacy by the end of the fifth semester. Students who have completed a master's degree at another institution may receive up to 12 units of transfer credit toward the PhD.

Required Courses

Code	Title	Units
MUSIC 5010	Independent Study	3
MUSIC 5020	Introduction to Musicological Research I	3
MUSIC 5104	Analysis I	3
MUSIC 5160	Selected Areas of Special Study II	3
or MUSIC 5070	Introduction to Contemporary Music Theory	
MUSIC 5220	Theory Qualifying Project I	3
MUSIC 5221	Theory Qualifying Project II	3

Elective Courses

- 9 units of seminars or independent studies in Theory (chosen in consultation with an advisor from the following: MUSIC 5050 Introduction to Schenker's Analytical Method; MUSIC 5051 Seminar: Schenker's Analytical Methodology; MUSIC 5150 Selected Areas for Special Study II; MUSIC 5170 Seminar in Music Theory; MUSIC 5224 Computational Models of Music Theory and Cognition; MUSIC 5331)
- 3 units of seminars or independent studies in Composition or Theory (chosen in consultation with an advisor from the following: MUSIC 5189 Composition, Advanced; MUSIC 5190 Composition, Advanced; MUSIC 5023 Advanced Techniques in Electronic Music: Studio Songwriting; MUSIC 5050 Introduction to Schenker's Analytical Method; MUSIC 5051 Seminar: Schenker's Analytical Methodology; MUSIC 5150 Selected Areas for Special Study II; MUSIC 5170 Seminar in Music Theory; MUSIC 5224 Computational Models of Music Theory and Cognition; MUSIC 5331)
- 9 units of Music History and Culture (chosen in consultation with an advisor from the following: MUSIC 5030 Introduction to Popular Music Studies; MUSIC 5080 Introduction to Ethnomusicology; MUSIC 5090 Music Ethnography and Fieldwork Methodologies; MUSIC 5110 Seminar in Music of the Classic Period; MUSIC 5120 Seminar in Romantic Music; MUSIC 5130 Selected Areas for Special Study I; MUSIC 5140 Sound Theory)
- 6 units from outside of the Department of Music, excluding basic foreign language instruction. Courses in foreign-language literature or linguistics at the 5000 level may be used to satisfy this requirement.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those

requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Virtually all music scholars teach in some capacity. Most of our PhD students hope to teach at the university level. Depending on where they find employment, they could work with a range of students, from conservatory students preparing for professional careers as performers or music educators to liberal arts students taking music courses to fulfill humanities requirements. Interviews for university positions almost always include a teaching demonstration. In the past decade or so, music scholars have increasingly given the study of pedagogy a prominent place at national conferences and in peer-reviewed journals.

Pedagogy is also an important aspect of training for PhD students who go on to work outside the academy. Working for a museum, library, or an arts organization, for instance, requires a scholar to engage with the public (and even with their colleagues) as an educator.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

The pedagogical training that students obtain in MUSIC 5020 Introduction to Musicological Research fulfills the requirement of two Preparatory Engagement activities. If students want to undertake additional, voluntary Preparatory Engagement activities, they may participate in workshops sponsored by the university's Center for Teaching and Learning.

During their first year in the PhD program, all Music students take MUSIC 5020 Introduction to Musicological Research. This seminar explores a variety of issues, including pedagogy. Training includes explorations of specific issues (selecting textbooks, teaching "difficult" topics, designing discussion questions, conceiving survey courses) as well as mock lectures. The semester culminates with students designing an original course syllabus.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Music requires five or six AI engagements at 10 MER units each. The number of AI engagements is dependent upon whether a student opts to take one MIT or one MPE. Duties for AIs include the following:

- For musicology courses: attend class meetings, give two guest lectures during the semester, and grade assignments.
- For music theory courses: attend class meetings, give two guest lectures during the semester, and lead two sections of a weekly musicianship lab.

Even when students do not choose an MIT opportunity, they will still take on AI experiences that involve increasing levels of leadership and draw on accumulated pedagogical experience. For instance, AIs with more than 20 MTE units of experience in the music theory division may serve as the musicianship lab coordinator, a role in which they are mentored by a music theory faculty member while they in turn mentor AIs who are leading musicianship labs for the first time.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

A student's teaching experience in our department may culminate with an MIT opportunity to teach a course as the instructor of record (20 MTE units). We extend this opportunity only to students who are making satisfactory progress in the program and who are able to design and teach a course that complements our current undergraduate offerings. Students seeking to pursue this MIT opportunity must submit a course proposal to the chair, division head, and director of graduate studies no less than one academic year in advance. (This course proposal can be based on the syllabus the student designed for MUSIC 5022 Introduction to Musicological Research II.) The academic unit that owns the course can vary: students with Harvey Fellowships, for example, are required to teach a course for AMCS, which would simultaneously fulfill this part of Music's MTE requirement.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

We are open to students fulfilling their mentored experience requirements through other means, including one MPE opportunity (20 MTE units). If a student would like to pursue such an opportunity, they must submit a proposal to the chair, division head, and Director of Graduate Studies the previous semester.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Music requires 60 to 70 units of AI engagements.

Pathway #1 (AI only)

ASGS 8010	Take six times

Pathway #2 (AI & MIT)

ASGS 8010	Take five times
ASGS 8020	Take one time

Pathway #3 (AI & MPE)

ASGS 8010	Take five times
ASGS 8120	Take one time

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students who wish to obtain additional experience with courses inside and outside Music may opt for a teaching intensive track totaling 80 MTE units after completing either Pathway #1 or #2 requirements.

Optional Pathway After Completion of Required Pathway #1

ASGS 8020	Take one time

Optional Pathway After Completion of Required Pathway #2

ASGS 8010	Take one time

Optional Pathway After Completion of Required Pathway #3

ASGS 8010	Take one time
ASGS 8020	Take one time

Music, PhD, Musicology Concentration

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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 45
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A grade of B– or better is required for courses to count toward the degree. Students are expected to maintain a cumulative grade point average of at least 3.0 on a 4.0 scale in courses that count toward their credit units.

The PhD degree with a concentration in Musicology requires a total of 45 units of graduate study: 3 units of Introduction to Musicological Research, 3 units of Analysis, 24 units of History and Culture, 6 units of theory, 6 units outside Music, and 3 units of independent study. Also required are keyboard proficiency; reading knowledge of one foreign language in which the student is not already fluent and which

is directly relevant to their dissertation research; a program-defined Mentored Experience Requirement; written and oral qualifying examinations; the dissertation; and the final oral defense of the dissertation. To advance to doctoral candidacy, students must complete all coursework, qualifying exams, language requirements, and the keyboard skills exam. Students must advance to doctoral candidacy by the end of the fifth semester. Students who have completed a master's degree at another institution may receive up to 12 units of transfer credit toward the PhD.

Required Courses

Code	Title	Units
MUSIC 5010	Independent Study	3
MUSIC 5020	Introduction to Musicological Research I	3
MUSIC 5104	Analysis I	3

Elective Courses

- 24 units of Music History and Culture (chosen in consultation with an adviser from the following: MUSIC 5030 Introduction to Popular Music Studies; MUSIC 5080 Introduction to Ethnomusicology; MUSIC 5090 Music Ethnography and Fieldwork Methodologies; MUSIC 5110 Seminar in Music of the Classic Period; MUSIC 5120 Seminar in Romantic Music; MUSIC 5130 Selected Areas for Special Study I; MUSIC 5140 Sound Theory)
- 6 units of Theory (chosen in consultation with an adviser from the following: MUSIC 5050 Introduction to Schenker's Analytical Method; MUSIC 5051 Seminar: Schenker's Analytical Methodology; MUSIC 5070 Introduction to Contemporary Music Theory; MUSIC 5150 Selected Areas for Special Study II; MUSIC 5160 Selected Areas of Special Study II; MUSIC 5170 Seminar in Music Theory; MUSIC 5224 Computational Models of Music Theory and Cognition; MUSIC 5331)
- 6 units outside of Music, excluding basic foreign language instruction. Courses in foreign-language literature or linguistics at the 5000 level may be used to satisfy this requirement.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome

to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's in Lieu of PhD

Students in the Music program do not earn an MA along the way to the PhD degree. However, students are eligible to earn an MA in lieu of a PhD if they have fulfilled all of the requirements for the existing MA degree.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Virtually all music scholars teach in some capacity. Most of our PhD students hope to teach at the university level. Depending on where they find employment, they could work with a range of students, from conservatory students preparing for professional careers as performers or music educators to liberal arts students taking music courses to fulfill humanities requirements. Interviews for university positions almost always include a teaching demonstration. In the past decade or so, music scholars have increasingly given the study of pedagogy a prominent place at national conferences and in peer-reviewed journals.

Pedagogy is also an important aspect of training for PhD students who go on to work outside the academy. Working for a museum, library, or an arts organization, for instance, requires a scholar to engage with the public (and even with their colleagues) as an educator.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

The pedagogical training that students obtain in MUSIC 5020 Introduction to Musicological Research fulfills the requirement of two Preparatory Engagement activities. If students want to undertake additional, voluntary Preparatory Engagement activities, they may participate in workshops sponsored by the university's Center for Teaching and Learning.

During their first year in the PhD program, all Music students take MUSIC 5020 Introduction to Musicological Research. This seminar explores a variety of issues, including pedagogy. Training includes explorations of specific issues (selecting textbooks, teaching "difficult" topics, designing discussion questions, conceiving survey courses) as well as mock lectures. The semester culminates with students designing an original course syllabus.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Music requires five or six AI engagements at 10 MER units each. The number of AI engagements is dependent upon whether a student opts to take one MIT or one MPE. Duties for AIs include the following:

- For musicology courses: attend class meetings, give two guest lectures during the semester, and grade assignments.
- For music theory courses: attend class meetings, give two guest lectures during the semester, and lead two sections of a weekly musicianship lab.

Even when students do not choose an MIT opportunity, they will still take on AI experiences that involve increasing levels of leadership and draw on accumulated pedagogical experience. For instance, AIs with more than 20 MTE units of experience in the music theory division may serve as the musicianship lab coordinator, a role in which they are mentored by a music theory faculty member while they in turn mentor AIs who are leading musicianship labs for the first time.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

A student's teaching experience in our department may culminate with an MIT opportunity to teach a course as the instructor of record (20 MTE units). We extend this opportunity only to students who are making satisfactory progress in the program and who are able to design and teach a course that complements our current undergraduate offerings. Students seeking to pursue this MIT opportunity must submit a course proposal to the chair, division head, and director of graduate studies no less than one academic year in advance. (This course proposal can be based on the syllabus

the student designed for MUSIC 5022 Introduction to Musicological Research II.) The department/program that owns this course can vary: students with Harvey Fellowships, for example, are required to teach a course for AMCS, which would simultaneously fulfill this part of Music's MTE requirement.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

We are open to students fulfilling their mentored experience requirements through other means, including one MPE opportunity (20 MTE units). If a student would like to pursue such an opportunity, they must submit a proposal to the chair, division head, and Director of Graduate Studies the previous semester.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Music requires 60 to 70 units of AI engagements.

Pathway #1 (AI only)

ASGS 8010	Take six times

Pathway #2 (AI & MIT)

ASGS 8010	Take five times
ASGS 8020	Take one time

Pathway #3 (AI & MPE)

ASGS 8010	Take five times
ASGS 8120	Take one time

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Students who wish to obtain additional experience with courses inside and outside Music may opt for a teaching intensive track totaling 80 MTE units after completing either Pathway #1 or #2 requirements.

Optional Pathway After Completion of Required Pathway #1

ASGS 8020	Take one time

Optional Pathway After Completion of Required Pathway #2

ASGS 8010	Take one time

Optional Pathway After Completion of Required Pathway #3

ASGS 8010	Take one time
ASGS 8020	Take one time

Performing Arts

The **Master of Fine Arts (MFA) in Dance** in the Performing Arts Department at Washington University offers an innovative approach to dance technique, composition, improvisation, and production. It involves an energetic interplay of studio work with professionally distinguished dance instructors, seminars with faculty who are experts in their fields, and independent studies in choreography. This two-year program will expand students' dance skills while engaging them with current concepts of dance as an art form, as an expression of culture and identity, and as a mode of critical thinking. The overarching goal of this program is to develop each dancer's personal artistic practice while encouraging a global perspective on dance studies, performance, pedagogy, and choreography.

The department offers performance experience through its repertory company, the Washington University Dance Collective, and the annual Washington University Dance Theatre concert that features the work of faculty and guest artists.

The **Master's in Theater and Performance Studies** at Washington University in St. Louis is one of the strongest programs of its kind. Students are offered rigorous scholarly training, opportunities to meet and work with visiting scholars and artists, and support in developing their own independent research projects, all within a collaborative, collegial environment that prizes critical thinking and creative practice.

Our students enroll in small, intensive seminars in theater history and performance theory as well as studio courses in directing, playwriting, and theater for social change. There are ample opportunities for interdisciplinary study, and we have strong relationships with affiliate faculty in allied departments and programs, including Film and Media Studies; English; Music; Comparative Literature and Thought; African and African American Studies; and Women, Gender, and Sexuality Studies.

Our faculty have been recognized with numerous accolades for both their artistic and scholarly work, and the small size of each admitted class allows for individual attention and one-on-one mentorship. We have placed our graduates in top PhD programs in the field, including programs at Brown, Stanford, Northwestern, University of California San Diego, and University of Minnesota. Other graduates have pursued careers in the arts, social justice work, and education. We invite students who have studied theater and performance as undergraduates as well as students who are following new paths in their scholarship to learn more about our program.

Phone: 314-935-5858
 Email: pad@wustl.edu
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Faculty

Chair

Julia Walker
 PhD, Duke University
 (Drama)

Directors of Graduate Studies

Joanna Dee Das
 Director of Graduate Studies in Dance (MFA)
 PhD, Columbia University

Elizabeth Hunter
 Director of Graduate Studies, Assistant Professor of Drama
 PhD, Northwestern University

Directors of Undergraduate Studies

Elinor Harrison

Lecturer in Dance
PhD, Washington University in St. Louis

Claire Sommers

Lecturer in Drama
PhD, City University of New York

Department Faculty

Zachariah Ezer

Assistant Professor of Performing Arts
MFA, The University of Texas at Austin

Dominique Green

Lecturer in Costume Design
MFA, University of Cincinnati, College Conservatory of Music

Robert K. Henke

Professor of Drama and Comparative Literature
PhD, University of California, Berkeley

Ron Himes

Henry E. Hampton Jr. Artist-in-Residence
BSBA, Washington University

David W. Marchant

Professor of Practice in Dance
MFA, University of Iowa

Robert Mark Morgan

Teaching Professor of Drama
MFA, San Diego State University

Elaine A. Peña

Professor of Performing Arts, American Culture Studies, and Anthropology
PhD, Northwestern University

Sean Savoie

Teaching Professor of Design-Technical Theater
MFA, University of Cincinnati - College Conservatory of Music

Cecil Slaughter

Director of Undergraduate Studies of Dance
MFA, University of Iowa

Andrea Urice

Director of Undergraduate Studies of Drama
MFA, University of Virginia

William Whitaker

Professor of Practice in Drama
MFA, Florida Atlantic University

Retired Faculty

Mary-Jean Cowell

PhD, Columbia University

Christine Knoblauch-O'Neal

PhD, Texas Woman's University

Jeffery S. Matthews

Professor of Practice in Drama
MFA, Virginia Commonwealth University

Annamaria Pileggi

Professor of Practice in Drama
MFA, Brandeis University

Henry I. Schvey

PhD, Indiana University

Degree Requirements

- Dance, MFA (p. 365)
- Theater and Performance Studies, Accelerated BA/MA (p. 369)
- Theater and Performance Studies, MA (p. 370)

Courses

Courses include the following:

- Dance (p. 358)
- Drama (p. 362)

Dance

DANCE 5010 Dance Composition Laboratory I: Exploring Process and Format

The studio workshop in dance composition for graduate students emphasizes individual artistic development through a combination of structured assignments, independent work, interaction with visiting artists, and participation in a shared workshop environment. Expanding upon previous applicable skills and experience, graduate students are encouraged to explore and develop personal aesthetic in movement vocabulary, genre, method and process. Consultation with the course instructor supports clarification of the student's choreographic intention and general development of the student's artwork. Group critiques by faculty and students contribute analysis and facilitate dialogue regarding both process and artwork. This course may be taken by qualified undergraduate senior dance majors or minors who have completed 203 (or 208) and 303 (or 309), with permission of instructor.

Credit 3 units.

Typical periods offered: Fall

DANCE 5011 Dance Composition Laboratory II: Exploring Alternative Venues and Audience Connections

The studio workshop in dance composition for graduate students emphasizes individual artistic development through a combination of structured assignments, independent work, interaction with visiting artists, and participation in a shared workshop environment. Expanding upon previous applicable skills and experience, graduate students are encouraged to explore and develop personal aesthetic in movement vocabulary, genre, method and process. Consultation with the course instructor supports clarification of the student's choreographic intention and general development of the student's artwork. Group critiques by faculty and students contribute analysis and facilitate dialogue regarding both process and artwork.

Credit 3 units.

Typical periods offered: Spring

DANCE 5021 Approaches to Improvisation and Spontaneous Composition

The graduate studio workshop in dance improvisation emphasizes individual and ensemble performance practice through a combination of structured assignments, independent work, and participation in a collaborative workshop environment. In this course, students learn and create processes for improvising dance/performance art, with an aim toward developing integrated skill in: dance technique, intuitive movement invention, partnered dancing, collaborative process, performance presence/expressivity, and compositional form. Improvised practice develops processes for performance applicable to stage, site-specific and camera-based artistic venues, and refines individual and ensemble performance artistry. Students will review history of aesthetic theory and processes developed by improvisation artists of the 20th century. In-class discussion fosters critical thinking/analysis, facilitates dialogue on process, and supports development of artistry and virtuosic performance.

Credit 3 units.

Typical periods offered: Fall

DANCE 5022 Jazz III

Jazz III is primarily a studio course based on traditional jazz with strong elements of ballet technique, hip hop, Broadway, and street jazz. The main focus of the class will be on increased technical proficiency and development as an expressive performer. The studio work will introduce exercises and movement phrases that challenge the dancer's skill level, and encourage a personal exploration that further enhances the dancer's individual expression and style. Studio work will be supported by individual research on the field of jazz dance. Variable content: may be repeated once for credit. Prereq: High-Intermediate training in jazz dance technique and permission of the instructor.

Credit 2 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

DANCE 5030 Performance Artistry

This course offers the MFA in Dance student an opportunity to receive credit for performing in public in choreography crafted by a Washington University dance faculty, or guest artist choreographers for Washington University Dance Theatre, in choreography presented by WU Dance Collective (the student repertory company), or by the Center for Contemporary Arts' Co-Artistic Directors of Dance, either Antonio Douthit-Boyd or Kirven Douthit-Boyd.

Credit 1 unit.

Typical periods offered: Fall, Spring

DANCE 5032 Introduction to Screendance Composition & Performance

Introductory studio workshop in screendance composition and digital performance. For students with experience in choreography or improvisation, Screendance Composition explores the intersection of dance and digital media. Students will learn basic camera and videography skills to create screendance projects and learn about this emerging dance genre that combines the artistry of dance with the visual art capabilities that cameras offer. Methods for improvisation and site-specific performance will also be explored. Group critiques by faculty and students contribute analysis and facilitate dialogue regarding both process and artwork. Prerequisites L29 203, or L29 3110 or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5040 Methodologies of Global Dance Studies

This course introduces graduate students to methodologies of dance studies. In line with current scholarship, the course emphasizes a global perspective, thinking about the practice of dance in a wide spectrum of spaces and places, including the streets of Oakland, California, the milonga dance halls of Argentina, and the temples of India. We will pay attention both to questions of aesthetics and to how political and cultural contexts influence the practice of dance. Students will learn methods of ethnography, history, and practice-as-research as applied to dance; we will also analyze how dance scholars use feminist theory, critical race theory, queer theory, phenomenology, and performance studies in their work. As a final project, students conduct research on a topic of their choosing and present their results as either a written seminar paper or a performance ethnography.

Credit 3 units.

Typical periods offered: Fall

DANCE 5050 Guest Artist Residency Workshop

This course is designed as an opportunity for the student to work as an assistant to a guest choreographer during their process of creating new choreography or restaging original choreography. The student will experience the applied nature of critical thinking, problem solving, and collaboration within the choreographic process as the choreographer also administers the more managerial responsibilities of scheduling and time management. The student will be fully immersed in the unique bifurcated interplay of the dialogic and the corporeal of the choreographic process. The experience should enhance the student's already burgeoning choreographic process. Following the residency, the student will take over the rehearsal process through to tech week and the performances. May be repeated once.

Credit 1 unit.

Typical periods offered: Fall, Spring

DANCE 5060 Research Methods Colloquium

This course is designed around the theory of the everyday work of art, suggested by Eric Booth. The everyday work of art suggests a persistent interest in and the ability to navigate one's art making from the initial impulse of creation to the fully blossomed form. In this course, the art is that of making dance. Indeed, the work of our art both acknowledges the expectations from within our given domain while fully engaging with the daily, open-ended possibilities for dance making.

Credit 3 units.

Typical periods offered: Fall

DANCE 5070 Theories of the Body in Performance

Over the past twenty years, the body has become a popular subject of study across multiple disciplines, including anthropology, philosophy, women's/gender/sexuality studies, religious studies, and the growing field of performance studies. This graduate seminar pairs critical theory readings about embodiment (and its attendant phenomena, including corporeality, kinesthesia, emotions, the senses, etc) with investigation into how specific artists work out such ideas in performance. Identity categories often marked by the body, including race, gender, and sexuality, will be particularly important. For example, we will wrestle with how the black dancing body as a conceptual framework maps (and not) onto the material realities of African American dancers. In addition to discussion of texts, in-class work includes embodied and creative exercises as a way for students to apply theory to practice. Assignments deepen students' artistry, help them develop analytical writing and presenting skills, and prepare them for professional work in both performative and academic arenas. Credit 3 units.

Typical periods offered: Fall, Spring

DANCE 5080 Final Project I

This is the first of the two Final Project courses (Final project II, Spring semester) for the MFA in Dance student. The student will spend the Fall semester creating and rehearsing original choreography which will be presented in a Final Project Concert, second semester, that represents the culmination of their studies in the MFA in Dance Program. The Final Project, a concert or public presentation largely expressed in Dance, represents an amalgamation of their growth as an artist, enhanced choreographic process, expanded range as a performer, and comprehensive understanding and application of the collaborative nature of the production elements within their concert. The concert, and the research and rehearsals leading up to it noted in a written statement, will be evaluated by a committee. Credit 3 units.

Typical periods offered: Fall

DANCE 5081 Final Project II

Final project for MFA in Dance. Credit 3 units.

Typical periods offered: Spring

DANCE 5100 Theory and Technique of Modern Dance V

The course emphasis is on versatility in movement vocabulary and on more complex and intensive technical work with discussion of theory inherent in the studio work, related readings, and projects. Variable content; may be repeated for credit in a subsequent semester. Prerequisite: Dance 302 with recommendation of the student's previous 302 instructor or permission of the 401 instructors.

Credit 2 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

DANCE 5101 Theory and Technique of Modern Dance VI

This course is a continuation of Dance 401 with emphasis on more complex and intensive technical work. Variable content; may be repeated for credit in a subsequent semester. Prerequisite: Dance 401 with recommendation of the student's previous 401 instructor or permission of the 4021 instructors.

Credit 2 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5102 Modern Dance and the African American Legacy II

This course will focus on works by 2-3 renowned African-American choreographers. The selected choreographers are chosen for their contributions to the field of American modern dance based primarily on their explorations regarding the process and dynamics of building community--the sense of community as experienced through the lens of African-American cultural values and aesthetics and as it pertains to the creative process. Therefore, the course focuses on viewing the body as a site for the exchange of ideas concerning humanity. Students will investigate these choreographers through learning excerpts of their choreography and choreographing personal responses, as well as through related readings, videos, and independent research.

Credit 2 units. A&S IQ: HUM, SC Arch: HUM Art: CPSC, HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5110 Classical Ballet III

Designed for dancers with a solid foundation in beginning and intermediate ballet technique. Related reading, research paper/discussion, video assignments; attendance at 1-2 ballet performances. Variable content; may be repeated for credit in a subsequent semester.

Credit 2 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5111 Classical Ballet IV

A course designed for dancers with a solid foundation in beginning and intermediate ballet technique. Variable content; may be repeated for credit in a subsequent semester. Prerequisite: permission of instructor, and B+ or better in 3221 and 415 or 416.

Credit 2 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5120 Performing the Political in American Dance

This course is an exploration of the politics of performance and the performance of politics through the lens of American dance in the 20th and 21st centuries. Through readings, screenings, and discussions, we will examine the ways in which American dance developed against and alongside political movements in the United States, particularly ones concerning nationalism, race, gender, and human rights. We will also investigate how the lens of dance and choreography offers an expansive means to conceptualize political questions of citizenship and social protest, broadening our understanding of embodied performance. Guided by several key philosophical texts, this course will focus on the concepts necessary for examining the convergence of performance and politics (e.g., representation, ritual, spectacle, body, mimesis, propaganda) while also paying special attention to the politics of funding and censorship that has governed the creation and presentation of dance in the United States. No dance experience is necessary.

Credit 3 units. A&S IQ: HUM, LCD, SC, WI Art: CPSC BU: BA, HUM EN: H

Typical periods offered: Fall, Spring

DANCE 5130 Dance Pedagogy

In this course students will learn methods of instruction, assessment and how to develop dance curriculum for K-12. Students will design classes based on national standards, grade level expectations and sound dance principles. In the studio they will teach each other sample lessons that they have developed. This class will cover dance competencies required by DESE for beginning teachers of dance. We will pay attention to current trends in arts education. Our discussion will include the diversity of student populations and how to prepare and respond. We will discuss the role of the arts in education and the dance teacher's role as classroom instructor, arts integration instructor, diplomat and arts advocate. Credit may be applied toward



the education major and potentially toward state certification.

Prerequisite: minimum of two semesters of upper level coursework in dance technique. Prerequisite: minimum of two semesters of upper level coursework in dance technique.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

DANCE 5140 Performing Gender and Sexuality in America

This course examines how the performance of gender and sexuality has shaped the social, cultural, and political history of the United States from the early nineteenth century to the present. While performance happens in everyday life, we will primarily focus on how the stage has been a potent space to debate issues about gender and sexuality. This course will put forth the argument that the stage has historically not only reflected broader social concerns, but also actively helped to shape those social dynamics. After an introduction to foundational ideas, we will start the semester with minstrelsy, signaling that the performance of gender and sexuality in America is deeply intertwined with race, class, and national belonging. Reading and viewing assignments bring together feminist theory, queer theory, American social history, and performance texts to build robust seminar discussions.

Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: CPSC, HUM BU: BA, HUM EN: H

Typical periods offered: Spring

DANCE 5150 Presence in Performance: Alexander Technique and Mindful Movement for Performing Artists

This course provides group and individual instruction in principles and methods from Alexander Technique and other somatic arts for training mindful, embodied presence in performance. Mindful movement techniques are widely used by professional dancers, actors, and musicians to enhance performance skill and to address/prevent injury and chronic pain. Through a workshop process of guided learning, students gain awareness of subtle inefficiencies in coordination and balance that cause pain and limit ability. Students gain ability to self-assess and adjust problematic movement patterns to improve freedom and expression. Alexander Technique works at fundamental levels of movement coordination, and its methods are applicable to all performing art genres. Training is tailored to each individual student's needs, skills and goals. This course involves experiential learning supported with related readings, discussion, personal research projects and presentations. Prerequisites: Graduate standing; also open to undergraduate students studying at the 400 level in their discipline with permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5161 High Intermediate Ballet I

A course designed as preparation for the advanced level. Emphasis on vocabulary review and individual technique assessment, including placement, movement quality and musicality. Related readings and video assignments; attendance at and critical analysis of 1-2 ballet performances. Variable content; may be repeated in a subsequent semester.

Credit 2 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

DANCE 5170 High Intermediate Ballet II

A course designed for the high intermediate dancer in preparation for 4281/429. Emphasis on placement, movement quality and musicality. Related readings and projects supplement the classical vocabulary. Prereq: B+ or better in 221, 222, 321, 322 and/or permission of instructor.

Credit 2 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5180 Variations in the Ballet

Introduces classical choreography within various ballets. Prerequisites: Dance 321 or 4281 with some pointe training, and permission of instructor.

Credit 1 unit. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5181 Pointe Technique

Designed for dancers with a basic foundation in pointe work. Variable content; may be repeated for credit in a subsequent semester.

Prerequisite: concurrent registration in Dance 321 or 4281 and B+ or better in 221, 222, 321, 322 and/or permission of instructor.

Credit 1 unit. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

DANCE 5190 Topics in Dance Technique

Explores a variety of special interest topics in dance techniques.

Consult the course listings for the semester topic.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DANCE 5270 Advanced Research Methodology in Human Movement Science

This in-person course provides advanced training in conducting human movement science research. Students who wish to pursue advanced research training in human movement science will learn how to analyze, interpret, and disseminate their research. This class is focused on how to make your research visible once data collection is complete. Using data sets generated in the fall course, "Research Methodologies of Human Movement Science", students in the spring semester will get hands-on experience analyzing and interpreting real data. Principles of statistical analysis, scientific communication, and ushering a paper to publication will be emphasized. One group project and one solo project will be accomplished throughout the semester.

Credit 3 units.

Typical periods offered: Spring

DANCE 5300 Contemporary Ballet

For intermediate and advanced dancers, this course presents a dynamic fusion of classical ballet technique and the expressive, innovative elements of contemporary dance. We will build upon the foundational ballet principles rooted in an art form dating back to the seventeenth century, during the reign of Louis XIV in France. While ballet traditionally prides itself on classicism, the past forty years have seen the emergence of the genre known as contemporary ballet. This genre pushes the classical ballet vocabulary into new thematic and aesthetic territories, placing emphasis on abstraction, complex rhythms, and movement invention. Many of today's leading dance companies focus is on contemporary ballet, making this course a valuable preparation for entering the evolving world of dance. The course places a strong emphasis on practical, embodied work in the studio to foster the development of technical skills, musicality, and artistry. Prerequisites: Successful completion of L29 Dance 321 or permission of the instructor.

Credit 2 units.

Typical periods offered: Fall

DANCE 5500 The Line of Least Resistance: Embodying Postmodern Dance

This graduate level studio course explores concepts of Postmodern dance from the 1960s up to the present day. Course readings and viewings will be explored through a physical, embodied approach. To accompany our viewings, we will learn seminal works by Postmodern choreographers (for instance, Set Reset by Trisha Brown), explore improvisational methodologies, and develop our own choreographic projects in our own voices. Historical and theoretical readings will include topics such as Judson Dance Theatre, African-American dance, European Tanztheater, and beyond. Course concepts will be presented mostly chronologically and be explored through varied lenses including historical and cultural context, artistic and social upheavals, cultural hybridity, and performance and aesthetic theory. Prerequisites: Modern technique III or higher, or permission of instructor. Students interested in taking this course should sign up for waitlist. Enrollment will be determined by instructor.
Credit 3 units.

DANCE 5901 Independent Work

Prerequisite: senior standing and permission of the coordinator of the dance division.
Credit 10 units.

Typical periods offered: Fall, Spring

DANCE 5910 Independent Choreography Project I

This course is designed to assist the MFA students in the development of their craft as choreographers prior to committing to their final projects. The point of entry for each student may depend on his or her previous study of composition or experience within the profession. Each student composes a study or work-in-progress, a dance or dances which culminates in a public showing or concert of the work, on or off-campus, or with WU Dance Collective, the student repertory company. The ongoing work is to be shown 3-4 times a semester to the instructor of record and/or adviser, and any other Performing Arts Department faculty and/or Antonio Douthit-Boyd or Kirven Douthit-Boyd of the Center of Contemporary Arts (COCA) that the student wishes to invite for the viewing and response session.
Credit 3 units.

Typical periods offered: Fall

DANCE 5911 Independent Choreography Project II

Independent study
Credit 3 units.

Typical periods offered: Spring

DANCE 5912 Independent Choreography Project III

This course is designed to assist the MFA students in the development of their craft as choreographers prior to committing to their final projects. The point of entry for each student may depend on his or her previous study of composition or experience within the profession. Each student composes a study or work-in-progress, a dance or dances which culminates in a public showing or concert of the work, on or off-campus, or with WU Dance Collective, the student repertory company. The ongoing work is to be shown 3-4 times a semester to the instructor of record and/or adviser, and any other Performing Arts Department faculty and/or Antonio Douthit-Boyd or Kirven Douthit-Boyd of the Center of Contemporary Arts (COCA) that the student wishes to invite for the viewing and response session.
Credit 3 units.

Typical periods offered: Fall

Drama

DRAMA 5071 Theater for Social Change

Drawing upon the principles and teachings of Brazilian director Augusto Boal, students will explore ways of effecting positive social change in a theatrical context. Students will study the aesthetic of Boal's Theatre of the Oppressed and learn various games and exercises designed to mine issues of social (in)justice. Using Boal's techniques of image and forum theatre, students will then create and perform plays focused on these issues. This public performance will be an interactive event offered for and with the university community. No prior performance training or experience is required for this course. Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: CPSC, HUM BU: HUM EN: H

Typical periods offered: Fall

DRAMA 5080 Topics in Contemporary Arts Practice Research

This course offers graduate students an opportunity to engage and conduct contemporary arts practice research. Taught by a member of our arts practice faculty (e.g., in dance/movement, acting/directing, design), this course introduces students to contemporary research on a topic that the faculty member is currently conducting (e.g., reconstructions of historic choreographies, global applications of Boalian technique, robotics and performance). Through these graduate-level courses, students are invited to enter into and contribute to the broader scholarly conversations that have shaped and are shaping our knowledge of that topic through their own research. Assignments will include reading and discussing contemporary scholarship on the topic, writing papers, and participating in arts practice research (often by designing their own performance-oriented work).
Credit 3 units.

Typical periods offered: Fall

DRAMA 5081 Feminist Performance Methods

In our current political and social climate in which battles for representation, autonomy, and recognition for humanity are heightened, it is critical that scholars remain vigilant of the politics undergirding how we gain access to knowledge and the conclusions we impart. In this course, we will study the works of feminist-identified scholars and performers to examine how they use different mediums to excavate, stage, and theorize lives that place, front and center, the relationship between (P)olitics, embodied knowledge, and the methods used to gain access. The course will be divided into three units-oral history, theater, and ethnography-in which we will explore scholarship from various disciplines and fields (English, anthropology, theater, dance, queer studies, and history). Doing so familiarizes students with different research methods, as well as illustrating feminism and performance as contested styles and approaches. Consequently, a major aim of this course is to expose students to an arsenal of research techniques and explore how such techniques impact the creation and trajectory of research questions, our engagement with subjects (both living and not) and objects, and the final product of our research. Students will also engage in practice-based workshops during class to gain practical tips and experiences that will enhance their research capabilities.
Credit 3 units.

DRAMA 5090 Topics in Contemporary Theoretical and Historical Research

This graduate-level seminar is designed to introduce students to contemporary scholarly debates in the field of theatre and performance studies. Addressing rotating topics that faculty members are currently engaging in their own historical/theoretical research, the course offers students an advanced introduction to the topic at hand, asking them to consider how recent scholarly conversations have shaped and are shaping our knowledge of it. Assignments are designed to invite students to contribute to these scholarly conversations through their own research by helping them hone their skills of analysis, synthesis and argumentation.

Credit 3 units.

Typical periods offered: Fall

DRAMA 5109 Acting Styles: Realism to Nonrealism

This course builds on skills in character development and scene study, beginning with psychological realism and then shifting into various forms of nonrealism. Through written analysis and performance, students apply acting techniques that address a variety of playwrighting styles. Prerequisites: Drama 240E/2401 and Drama 341/3411. The semester begins with a deepening understanding of psychological realism through the exploration of Anton Chekhov's plays. Focus then shifts to nonrealism with Harold Pinter. The second half of the semester is solidly rooted in nonrealism. Students hone their skills by exploring two more scenes from classical and/or contemporary texts. Additionally, in the final scene, students are encouraged to explore applicable considerations of gender-identity, race, and ethnicity in play and character selection. Prerequisites: Drama 2401 Fundamentals of Acting, Drama 3411 Intermediate Acting This course is open exclusively to seniors and graduate students

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

DRAMA 5110 Stage Lighting

This course will place an emphasis in the aesthetic practice of lighting design through the understanding of technology as it relates to time and space. Early on the student will learn how to properly use and apply designer's tools and then through reading, research and experimentation explore the limitless boundaries of color and texture. This will culminate in a stage design in collaboration with directing or dance class. Upon completion of the course, the student will be able to speak eloquently on design theory and be able to move on to further design study in Advanced Lighting Design: L15 410.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DRAMA 5120 Intro to Graduate Study in Theater, Dance, and Performance Studies

An introduction for the beginning Performing Arts graduate student to theoretical approaches as well as practical methodologies and resources, currently employed in professional theatre history, dramatic literature, theory criticism research. The course places equal emphasis on grasping theoretical issues and mastering graduate-level research and writing skills. Students will initiate, design and conduct a research project to the point of a completed first draft.

Credit 3 units.

Typical periods offered: Fall

DRAMA 5140 Embodied Communication: Listening

This course is about listening. We will begin by mediated and unmediated listening with the human auditory system and continue into an exploration of multi-modal listening, focusing on vibration and on somatic attention. We will work in the studio, which will

include a music studio, a dance studio, and the environment. Our investigation will include the study of sensing in more-than-human organisms as well as theoretical perspectives from sound studies, critical improvisation and history of science. The course will encourage the perspective that the practice of listening is a political act of tending to the invisible, the non-normative, and the incomplete.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DRAMA 5160 Graduate Public Speaking: Embodied Multimodal Communication

The class helps students develop their ability to communicate effectively in professional contexts in and beyond academia. It is designed with the needs of scholars in the humanities and humanistic social sciences in mind. Students will receive group instruction in verbal and non-verbal expression, voice, and physical movement, and individual coaching on a series of practiced communication tasks. Assignments will replicate situations in twenty-first century information professions: research presentations, video-conference interviews, and podcast production. Students will develop capacities that help them convey complex ideas clearly and present themselves confidently as colleagues and collaborators.

Credit 3 units.

Typical periods offered: Fall

DRAMA 5180 Graduate Seminar

Seminar for Graduate students

Credit 3 units.

Typical periods offered: Fall

DRAMA 5190 Prefiguration and Performance

Prefigurative politics describes activists' creation of a desired future world in the present. The term has been used to describe social movements (from Occupy to Tahrir Square to the Movement for Black Lives); Black and interracial intentional communities pursuing racial justice (including the Harlem Ashram and the Highlander Folk School); and experiments in radical pedagogy (such as Freedom Schools). Prefiguration takes many forms: in staging a new world, activists might establish systems of mutual aid or other models of care; promote a model of participatory democracy; challenge the relationship between the state and its citizens; establish new histories and myths; reimagine economic models; and/or create new aesthetic forms. Political theorists and sociologists have much to teach us about prefigurative politics and the many debates that surround it. For example, what is the relationship between prefiguration and political strategy? Are the two at odds, or compatible? Students enrolled in this course will work assiduously to assess this literature. We will then put the contemporary scholarship on prefigurative politics into conversation with a set of conversations emerging from performance theory that traverse similar terrain, among them debates about performance, utopia, and futurity; explorations of rehearsal and simulation; and the performativity of assembly. We will use our work to make sense of our contemporary moment, consider the performance and performativity of politics, and draw inspiration from those who have worked and continue to work to build a new world in the shell of the old.

Credit 3 units.

Typical periods offered: Spring

DRAMA 5200 Contemporary Issues in Education and Society: Project-Based Learning in Performing Arts Pedagogy

This seminar introduces students to curriculum development and teaching strategies for the performing arts and related subjects in high school and undergraduate classrooms. Students will learn how to develop pedagogical practices that are critically reflective, equity-minded, and project-based. Over the semester, students will prepare a teaching portfolio with a syllabus, lesson plan, assignments, and a statement of teaching philosophy.

Credit 3 units.

Typical periods offered: Fall, Spring

DRAMA 5204 Directing II

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

DRAMA 5303 Performance Theory

This course introduces students to contemporary theories of performance, with performance understood as both metaphor and event. From a multi-disciplinary perspective, students will consider how cultures produce meanings-and, indeed, perform those meanings-to create and/or disrupt their own social coherence. Theories likely to be studied include: J. L. Austin's speech-act theory and its engagement by John Searle and Jacques Derrida; Victor Turner's analysis of ritual as social process and Richard Schechner's use of it to transform theater studies into performance studies; Erving Goffman's sociology of the self and its relation to a post-structuralist model of subjectivity; Michael Fried's screed against minimalist art and its relation to Happenings, Body Art, Fluxus, and other mid- to late-20th century examples of performance art; and Judith Butler's influential revision of Austin's performative in her theory of queer performativity.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

DRAMA 5304 Race, Memory, and Performance

This course takes as its starting point the vexing questions of history, memory, and identity that activists, scholars, artists, and others have posed in recent years. What is to be done with the commemorative landscape of monuments and memorials? How do we account for the silences and erasures in archival records? How should histories of racial violence be commemorated? These are questions that have been taken up in many arenas of civic life, including public art, "living history" tourism, museum studies, and urban planning. They have also been taken up by theater artists and performance artists who use their bodies, narrative, historical fact and, sometimes, fiction to bear witness to the past and to imagine new futures. In this course, we will examine the role of theater and performance in constituting-and challenging-the historically contingent meanings of "race;" we will also explore how performance of history shapes national narratives. Artists to be explored might include Branden Jacobs-Jenkins, Mary Kathryn Nagle, Dread Scott, Quiara Alegria Hudes, Simone Leigh, and Heidi Schreck. Artistic and/or performance experience is not required. Students will have the opportunity to propose their own commemorative projects; together we will explore whether and how performances of the past can do a certain kind of reparative work necessary for a more equitable future.

Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM, VC BU: BA, ETH, HUM EN: H

Typical periods offered: Fall

DRAMA 5305 Seminar in Dramatic Theory

This course is an in-depth exploration of core works of dramatic theory from the ancient world to the present, and it will introduce texts that enunciate what theater is, has been, and should be. We will study authors' expressions of theater's role in society, their articulations

of and responses to anti-theatrical prejudice, and their negotiations of the contradiction of putting the real on stage. Other significant themes include accounting for the aesthetic pleasures of drama and theater; theater as a means of educating the citizen; and the relationship between dramatic form and social and political revolution. Moving chronologically, we begin with foundational documents of the ancient world, including Aristotle's *Poetics*, Bharata's *Natyasastra*, and Horace's *Ars Poetica*. The course then progresses through the Middle Ages, the Neoclassical and Romantic eras, and the explosion of fin de siècle avant-gardes. We will also read key texts from beyond the European tradition, including works of dramatic theory written in medieval Japan (Zeami), postcolonial Nigeria (Soyinka), and the millennial, multicultural United States (Parks). Along these same lines, we will also be attuned to transnational exchange and influence, particularly as it appears in the 20th-century theories of Bertolt Brecht, Antonin Artaud, and Konstantin Stanislavsky. Although the course will be focused on efforts to describe and prescribe theories of drama, dramatic genre, and theatrical pleasure, it will also position play scripts alongside the theoretical treatises that guide or are guided by them.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring, Summer

DRAMA 5307 Topics in American Drama: Tennessee Williams

Topics in American Drama.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

DRAMA 5309 Shakespeare and Performance

How were Shakespeare's plays performed in their own day--in the Globe theater, with boy actors, and with very short rehearsal times? How, for the actor, did performance work on the outdoor stage, with the Globe's wide and deep acting platform and its intimate relationship to the audience? How might one stage Shakespeare today in an outdoor environment without lighting and with minimal sets, and with the capacity to move easily from one outdoor venue to another? From what social types in Renaissance England--such as merchants, prostitutes, aristocrats, constables, beggars, and princes--did Shakespeare draw? How can evolving ideas about race, gender, and sexuality inform the way we perform Shakespeare today? Addressing these questions and others, the course weaves together performance and literary, critical, and historical study. Topics include blank verse, performing Shakespeare's prose, playing with figures of speech, working the Globe stage, engaging an outdoor audience, acting from a written part rather than an entire script, performing types, exploring Shakespeare's sources as performance alternatives, making Shakespeare new-and more. Students will rehearse and perform sonnets, scenes, and monologues based on social figures from Shakespeare's England. The course assumes a willingness to perform but not specialized acting training.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DRAMA 5310 Borders and Boundaries

This course will draw from the work of performance theorists, playwrights, anthropologists, historians, and geographers to write critically about and devise artistic work that opens up foundational theories, debates, and genealogies in the study of borders and boundaries. This course will use North America as its primary reference point, but it will also draw our attention to border and boundary dynamics elsewhere to think about global challenges such as forced migration and climate change.

Credit 3 units.

Typical periods offered: Fall

DRAMA 5312 Performance Ethnography

This course provides advanced undergraduate students and graduate students with the tools to conceptualize and conduct performance-centric ethnographic research. It engages key theories in performance studies and ethnographic methods as well as the ethics of responsible research.

Over the course of the semester, students will also take up short group exercises, script readings, and staging projects that may require role-playing, improvisation, and movement.

Credit 3 units.

Typical periods offered: Fall, Spring

DRAMA 5400 Dramaturgical Workshop

A laboratory course that investigates dramaturgy from four vantage points: New Play Dramaturgy, Institutional Dramaturgy, Dramaturgy of Classics, and Dramaturgical Approaches to Nontraditional and Devised Theater. This is a hands-on course where student dramaturgs will not only pursue the study of dramaturgy, but will work actively and collaboratively with playwrights, actors and each other.

Credit 3 units.

Typical periods offered: Spring

DRAMA 5401 Advanced Playwriting

This course explores the tendencies and relationship between each individual student writer and the page. Exercises dispel any lingering doctrine that presupposes a certain style of writing. A large part of the class centers around collaborations. The writers write scenes as a final project for an acting class, and also work with two professional actors in an extended writing project that culminates in a script-in-hand presentation. The informal moments between collaborations look at the process beyond the first draft -- i.e., the playground of language, non-verbal options, and the maintaining of the work through rewrites, readings, workshops, and productions. Prerequisite: Introduction to Playwriting, Drama 227.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Spring

DRAMA 5402 Advanced Theater for Social Change

This course is a continuation of exploration begun in Drama 4081, Theater for Social Change: a prerequisite for this advanced course. Students will expand from exploring their own experience with oppression to facilitating that exploration with others. Students will be introduced to the Joker system, developed by Brazilian director Augusto Boal. The Joker is the director of a forum theater event. He leads both the exploration and play-making phases of the process. In preparation for stepping into this role, students will read Paulo Freire's *Pedagogy of the Oppressed* which will give them a foundation in the power and efficacy of collaborative educational techniques. In addition, students will read *Theatre for Living*, Canadian director David Diamond's book detailing his application of Boalian techniques in a less overtly oppressive society. Students will begin their practical exploration by first working with one another, learning how to lead exercises and games, followed by an exploration of play making and the facilitation of an interactive forum theater event. The course will culminate in an outside project in which each student is placed with a St. Louis area school or social organization. The student will apply skills he has acquired throughout the semester by serving as the Joker of the workshop. In this role, the student will lead the entirety of the workshop process with a selected group exploring ways of effecting positive social change in a theatrical context. He will facilitate exercises with the group that mine a chosen area of oppression with which the group is grappling. The student will guide play-making with the group

that highlights this area of oppression. The resulting plays will then be presented to the larger school or organization community. This culminating event will be an interactive forum theater presentation that the student will lead as Joker.

Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: CPSC, HUM BU: HUM EN: H

Typical periods offered: Spring

DRAMA 5960 Master's Research

Credit for advanced research on a scholarly essay in Theater and Performance Studies.

Credit 3 units.

Typical periods offered: Fall, Spring

DRAMA 5970 Independent Work

Students may contract with a faculty supervisor for credit for their work on theatrical productions or research. Contracts must be signed by the student and the coordinator of Drama 500 before the student's work on the project commences. Credit and grade option to be determined in each case. In order to enroll for this course, students must complete a contract and submit it to the Performing Arts Department office.

Credit 6 units.

Typical periods offered: Fall

Dance, MFA

Phone: 314-935-5858

Email: pad@wustl.edu

Website: <http://pad.wustl.edu/>

Degree Requirements

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 60 units (15 units per semester)
- **Degree Length:** Two years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

- At the end of their first year, students will propose a culminating project — typically a dance concert or another public presentation of creative work largely expressed in dance — and submit a paper about its production, including analysis and critique, that they will defend orally.
- **Grade Requirement:** Students must earn a grade of C– or better in all courses. Students must maintain a minimum cumulative grade point average of at least 3.0 in courses that count toward their credit units.

Required Courses

I. Technical Development: 13 units

Students must take 13 units of credit in studio-based movement praxis that have the 5000-level course designation. The courses can be in any genres that best support the student's development.

II. Choreography and Performance: 20 units

Code	Title	Units
DANCE 5010	Dance Composition Laboratory I: Exploring Process and Format	3
DANCE 5011	Dance Composition Laboratory II: Exploring Alternative Venues and Audience Connections	3
DANCE 5021	Approaches to Improvisation and Spontaneous Composition	3
DANCE 5030	Performance Artistry (must be taken twice)	1
DRAMA 5110	Stage Lighting (or equivalent 5000-level course in production)	3
DANCE 5910	Independent Choreography Project I	3
DANCE 5911	Independent Choreography Project II	3

III. Research and Integrated Learning: 12 units

Students complete the following required course:

Code	Title	Units
DANCE 5060	Research Methods Colloquium	3

Plus 9 units chosen from the following:

Code	Title	Units
DANCE 5040	Methodologies of Global Dance Studies	3
DANCE 5050	Guest Artist Residency Workshop	1
DANCE 5070	Theories of the Body in Performance	3
DANCE 5102	Modern Dance and the African American Legacy II	2

DANCE 5120	Performing the Political in American Dance	3
DANCE 5130	Dance Pedagogy	3
DANCE 5140	Performing Gender and Sexuality in America	3

IV. Electives: 9 units

Students must complete 9 additional units at the 5000 level or above. These units may be from any area of the performing arts or relevant areas in other departments or programs. MFA students are encouraged to pursue courses that support or help to define their individual trajectories as artists.

V. Mentored Teaching Experience

MFA in Dance students at Washington University must complete a department-defined Mentored Experience. The Mentored Experience Requirement is a degree requirement for MFA in Dance students that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. The Mentored Experience Implementation Plans outline how students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Eligible students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience or ASGS 8015 MTE - Assistant in Instruction, ASGS 8020 MTE - Mentored Independent Teaching Experience, or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree. Each Mentored Teaching Experience will be fashioned around the student's interests, when possible, and guided by a full-time member of the dance faculty. For more information, visit the Mentored Experience Implementation Plan tab of this page (p. 367).

VI. Final Project: 6 units

Code	Title	Units
DANCE 5080	Final Project I	3
DANCE 5081	Final Project II	3

At the end of the first year, each MFA student will propose a plan for the final project, choose a main advisor, and form a final project committee. A concert is the typical format of the MFA final project, but it can take other forms of public presentation. The primary requirement is that the student's creative work must be largely expressed in dance. In addition to the presentation, the student will write a dramaturgical essay that contextualizes the work from its

initial conception through its reception. The student will submit a final version of the written component as well as a video record of the concert or public presentation for archival purposes within the department.

Mentored Experience Implementation Plan

As part of their degree requirements, Dance MFA students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for Dance MFA students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as *MERs*.

Mentored Experience Requirements (MERs)

Philosophy of Teaching

Our philosophy is that teaching experience is essential for success in the field of dance. The dance artist remains closely tied to teaching throughout their career, whether they pursue a faculty position in higher education, a career as an independent choreographer, or the establishment of their own dance company. As director of their own company, the dance artist may also be the main, if only, teacher for the company dancers. Often dance artists are required to include a “teaching” residency within any grant or fellowship proposal. In addition, the ability to teach remains a main component in applying, achieving, and retaining a dance faculty position in higher education. Some job postings want a dance faculty member who can specialize in a particular genre and teach many levels of ability within that genre. Given that many dance departments have a small number of full-time faculty, however, many job postings require faculty who can teach in multiple genres of dance technique, as well as dance history, anatomy/kinesiology, composition, and other areas. Very few dance faculty positions are research-oriented; almost all are teaching track and emphasize mentoring young dancers.

At the same time, our program is quite intensive: 60 credits in two years. We work with our students' independent career trajectories and goals to determine the best MTE plan: whether to deepen their abilities in a particular genre (i.e., ballet) to promote their expertise in that subfield, or whether they should gain experience in multiple areas. Some students enter our program after a long career in teaching at the K-12 level or open classes to adult professionals; others have not taught much before.

Given this range of backgrounds, our MTE is flexible. In order to graduate, a student must complete 10 to 20 units of an MTE. That could be fulfilled with completing one Assistant in Instruction (AI) at 10 units or one Mentored Independent Teaching (MIT) at 20 units. Any teaching beyond 10 to 20 units would put students on an optional Teaching Intensive Pathway (TIP).

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

The Dance MFA requires two Preparatory Engagement activities:

- Center for Teaching and Learning Orientation, fall semester of first year
- Pedagogy component of the introduction to graduate studies course

In the first semester of the program, students are required to take our 3-credit introduction to graduate studies course, Dance 5200 Research Methods Colloquium. The course is divided into four three-week units, with the additional weeks of the semester being introduction, projects, and so on:

1. How to be a graduate student
2. How to be a scholar
3. How to be an artist
4. How to be a teacher

This last three-week unit consists of sessions on pedagogy and then requires an outside-of-class practicum, during which students teach their own 80-minute classes in a dance faculty member's course and receive feedback from that faculty member.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

A student can be an AI in any studio technique course or seminar course at the 1000, 2000, or 3000 level. If a student requests, it is possible, with faculty permission, to be an AI for a Composition course (2030 or 3030). AI engagements are 10 MER units.

- 10 units = tracking attendance, participation, and discussion board posts; leading warmup in a studio course or doing grading in a seminar course; guest teaching one class during the semester

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

A student with significant prior teaching experience may elect not to do an AI and instead complete an MIT for 20 units in the spring semester of year one or the fall or spring semester of year two.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

The Dance MFA requires 10 to 20 units of MTE, dependent upon number of AI and MIT engagements.

There are two pathways to completing the MER requirement.

1. A student may complete one AI for 10 units in the spring semester of year one or in the fall or spring semester of year two.
2. A student with significant prior teaching experience may elect not to do an AI and instead complete an MIT for 20 units in the spring semester of year one or the fall or spring semester of year two.

Pathway #1

ASGS 8010	Take one time

Pathway #2

ASGS 8020	Take one time

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

Dance MFA students may opt to take up to 20 to 40 MER units after one of above required MTE pathways is completed in order to complete a TIP.

Optional Pathway A (20 units; only possible if MTE completed by fall semester of second year)

ASGS 8020	Take one time

Optional Pathway B (30 units; only possible if MTE completed in spring semester of first year)

ASGS 8010	Take one time
ASGS 8020	Take one time

Optional Pathway C (40 units; only possible if MTE completed in spring semester of first year)

ASGS 8020	Take two times

Theater and Performance Studies, Accelerated BA/MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

This program allows qualified Washington University undergraduates to complete a Master of Arts (MA) degree in a one-year accelerated program after earning the Bachelor of Arts (BA) degree in drama. The undergraduate and graduate degrees are awarded sequentially, if approved, with admission to the Accelerated MA program occurring during the fall semester after completion of the BA degree during the preceding December, May, or August. Applications may be submitted at any time during the student's senior year through March 15, and GRE tests are not required. The program is available only to senior students and only for continuous enrollment the next year. There is no option for deferred admission.

The requirements for the Accelerated MA are identical to those for the traditional MA, as detailed below. To complete the MA in one year, students may apply five undergraduate courses at the 4000 level or above (a maximum of 16 units) toward the master's degree. Undergraduate courses must be acceptable to the director of graduate studies, and they must be completed with a final grade of B or higher.

Interested students should contact the director of graduate studies during their sophomore or junior year for additional information and application instructions.

- **Total Units Required:** 36 units (20 units at the 5000 level)
- **Degree Length:** 1 year
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students must earn a final grade of B or higher in all courses.

I. Required courses: 18 units (6 courses)

1. **DRAMA 5120 ntro to Graduate Study in Theater, Dance, and Performance Studies.** As a general introduction to advanced scholarship in theater and performance studies, this course is designed to familiarize first-year graduate students with expectations for advanced research and professional writing. It is also intended to provide an overview of theater and performance studies, focusing on the relationship between these two scholarly domains, major works of scholarship that have defined the field, and current debates redrawing its contours.
2. **DRAMA 5303 Performance Theory.** This course introduces students to contemporary theories of performance, with "performance" understood as both metaphor and event. From a multidisciplinary perspective, students will consider how cultures produce meanings — and, indeed, perform those meanings — to create and/or disrupt their own social coherence. Theorists studied include J.L. Austin, Victor Turner, Erving Goffman, and Judith Butler.
3. **DRAMA 5305 Seminar in Dramatic Theory.** An in-depth exploration of core works of dramatic theory from the ancient world to the present, this course focuses on texts that enunciate what theater is, has been and should be. Readings address theater's role in society, the anti-theatrical prejudice, the aesthetic pleasures of drama and theater, theater as a means of educating the citizen, and the relationship between dramatic form and social and political revolution.
4. **Theater/Performance History.** One 5000-level historically based seminar from a list of approved courses taught *within* the Performing Arts Department. (Topics vary by semester.)
5. **Theater Practice.** At least one (but no more than three) 5000-level course(s) in theater practice: dramaturgy, directing, playwriting, or design.
6. Master of Arts students in Theater and Performance Studies should develop knowledge of and appreciation for aesthetic forms, intellectual paradigms, and cultural conditions beyond the largely white, Eurocentric approaches that have prevailed in the modern university curriculum. To that end, *students will complete at least one graduate-level course examining drama, theater, and/or performance that emerges from racial and/or*

ethnic communities whose contributions have been historically underrepresented in our field. Eligible courses include those home-based in the Performing Arts Department as well as approved courses offered through other Arts & Sciences departments.

II. Electives: 15 units (5 courses)

Students are invited to develop a broad-based or specialized curriculum in theater and performance studies, choosing courses from within the Performing Arts Department (including Dance) or as many as four courses (12 units) from departments outside the Performing Arts Department. The program works closely with faculty affiliates in other departments, including African and African American Studies; Anthropology; Art History and Archeology; Comparative Literature and Thought; Classics; East Asian Languages and Cultures; English (and non-Anglophone languages and literatures); Film and Media Studies; Music; History; Romance Languages and Literature; Women, Gender, and Sexuality Studies; and the Sam Fox School of Design & Visual Arts.

III. Master's Research (3 units)

Students must take DRAMA 5960 Master's Research (3 units) during either the fall or spring semester of their final year. The capstone to the master's degree is the completion of an essay of publishable length (typically 25 double-spaced pages) and quality. This essay is based on a seminar paper written during the student's first three semesters in the program, which must be extensively revised and expanded under the guidance of an advisor. After the revised seminar paper has been submitted to and approved by the director of graduate studies, the student will meet with a committee of three faculty members for an oral exam.

Phone: 314-935-5858
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Theater and Performance Studies, MA

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For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 units
- **Degree Length:** 2 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students must earn a final grade of B or higher in all courses.

I. Required Courses: 18 units (6 courses)

1. **DRAMA 5120 ntro to Graduate Study in Theater, Dance, and Performance Studies.** As a general introduction to advanced scholarship in theater and performance studies, this course is designed to familiarize first-year graduate students with expectations for advanced research and professional writing. It is also intended to provide an overview of theater and performance studies, focusing on the relationship between these two scholarly domains, major works of scholarship that have defined the field, and current debates redrawing its contours.
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complete at least one graduate-level course examining drama, theater, and/or performance that emerges from racial and/or ethnic communities whose contributions have been historically underrepresented in our field. Eligible courses include those home-based in the Performing Arts Department as well as approved courses offered through other Arts & Sciences departments.

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Philosophy

The Washington University Philosophy Department houses two PhD programs: a program in **Philosophy** — with strengths in philosophy of mind, epistemology, political philosophy, philosophy of science, metaphysics, and the history of philosophy — and a special interdisciplinary program in **Philosophy-Neuroscience-Psychology (PNP)** that maintains a core faculty in philosophy and draws on Washington University's exceptional psychology and neuroscience programs.

The department accepts about 10% of the applicants to these PhD programs and maintains about 25 students in both programs. We are especially open to interdisciplinary work, and we are committed to providing methodologically and substantively broad training. We welcome applicants from a wide range of backgrounds, and the most successful applicants have evidence of philosophical talent and promise.

Phone: 314-935-6670
Email: philosophy@wustl.edu
Website: <http://philosophy.wustl.edu/graduate-programs>

Faculty

Chair, Director of Philosophy

Lori Watson
Professor
PhD, University of Illinois-Chicago

Director of Graduate Studies

Matt McGrath
Professor
PhD, Brown University

Director of Undergraduate Studies

Anne Margaret Baxley
Associate Professor
PhD, University of California, San Diego

Director of Philosophy-Neuroscience-Psychology

Casey O'Callaghan
Professor
PhD, Princeton University

Department Faculty

Anne Baril
Lecturer
PhD, University of Arizona

Eric Brown

Associate Professor
PhD, University of Chicago

Rebecca "Becko" Copenhaver

Professor
PhD, Cornell University

Carl Craver

Professor
PhD, University of Pittsburgh

Marina DiMarco

Assistant Professor
PhD, University of Pittsburgh

Jason Gardner

Lecturer
PhD, Washington University in St. Louis

Allan Hazlett

Professor
PhD, Brown University

John Heil

Professor
PhD, Vanderbilt University

Brett Hyde

Associate Professor
PhD, Rutgers University

David Kinney

Assistant Professor
PhD, London School of Economics

Nicholas Koziolk

Senior Lecturer
PhD, University of Chicago

Jonathan Kvanvig

Professor
PhD, University of Notre Dame

Ron Mallon

Professor
PhD, Rutgers University

Any Plutynski

Professor
PhD, University of Pennsylvania

Kit Wellman

Professor
PhD, University of Arizona

Emeritus Faculty

Stanley Paulson

Professor Emeritus
PhD, University of Wisconsin-Madison

Jerome P. Schiller

Professor Emeritus
PhD, Harvard University

Degree Requirements

- Philosophy, PhD (p. 375)

Courses

PHIL 5000 Independent Work

Prerequisites: junior standing and permission of the department.
Credit 1-6 units.
Typical periods offered: Fall, Spring

PHIL 5001 Proseminar in Philosophy

The chief aim of the seminar is to improve students' philosophical skills, especially their philosophy writing skills. This seminar is limited to first year Philosophy and PNP graduate students.
Credit 3 units.
Typical periods offered: Fall

PHIL 5002 Survey Seminar

This is an advanced survey of one of several basic areas of philosophy, covering a different topic each semester. Prerequisite: enrollment in Philosophy or PNP PhD program or permission of instructor.
Credit 3 units.
Typical periods offered: Fall, Spring

PHIL 5003 Research Seminar

Students in this course have intensive focus on a specific philosophical topic, question, or figure, with an emphasis on philosophical research methods and writing. Prerequisite: enrollment in Philosophy or PNP PhD program or permission of instructor.
Credit 3 units.
Typical periods offered: Fall, Spring

PHIL 5010 Topics in Philosophy of Language

This course allows students to explore topics in philosophy of language.
Credit 3 units.
Typical periods offered: Fall, Spring

PHIL 5011 Topics in Analytic Philosophy

This course allows students to explore topics in analytic philosophy.
Credit 3 units.
Typical periods offered: Fall, Spring

PHIL 5012 Topics in Philosophy of Mind

This course allows students to explore topics in the philosophy of mind.
Credit 3 units.
Typical periods offered: Fall

PHIL 5013 Topics in Philosophy of Psychology

This course allows students to explore multiple topics in the philosophy of psychology.
Credit 3 units.
Typical periods offered: Fall, Spring

PHIL 5014 Topics in Philosophy of Science

This course allows students to explore topics in the philosophy of science.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5015 Topics in Ethical Theory

This course allows students to explore topics in ethical theory.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5016 Topics in Social and Political Philosophy

This course allows students to explore topics in social and political philosophy.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5017 Topics in Philosophy of Law

This course allows students to explore topics in the philosophy of law.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5018 Seminar: Metaphysics

This course is a seminar in metaphysics.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5019 Seminar

Credit 3 units.

Typical periods offered: Fall

PHIL 5030 Prospectus Seminar

The main goal of this seminar is to guide students as they write their dissertation prospectus, culminating in a prospectus that is ready to defend. A dissertation prospectus for a PhD in Philosophy or PNP introduces an issue, situates it within the existing literature, explains why the issue is significant and describes concretely how one aims to advance our understanding of the issue through one's dissertation. We will approach this process in stages. At each stage, students will write and revise drafts in response to instructor and peer feedback. Students will first work on how to introduce the issue they plan to address in the dissertation, situating it broadly within the existing literature. A successful introduction to an issue does not merely describe the problem, it motivates it and does so in the writer's own distinctive voice. It uses clear and jargon-free language, well-chosen examples, data or illustrations, and demonstrates (rather than merely asserting) the interest and significance of the issue. Next, students add to their draft by giving an account of the competing positions and arguments concerning the issue in the background literature, both at a general level and in more detail. At the third stage, students will make clear how they aim to advance our understanding of the issue. At this stage, students must state, explain and give a preliminary defense of a main thesis, in addition to stating concrete goals for further research. In the last few weeks of the course, we will hold practice prospectus defenses for each student. We will invite a guest faculty member to attend, but not the student's primary research advisor. Along the way, students will read and discuss two books on writing, Jean Bolker's *Write Your Dissertation in 15 minutes a Day* and William Germano's *On Revision: The Only Writing that Counts*. Early in the course students will also read and discuss successful defended past prospectuses. They will also gain insight from senior graduate students and faculty invited to discuss their prospectus experiences with the class

Credit 3 units.

Typical periods offered: Fall

PHIL 5040 Tutorial in Philosophy

Mandatory attendance required for graduate students in Philosophy and PNP. Weekly presentations by faculty members with a discussion in the latter half of meeting. Undergraduates majoring in Philosophy or PNP are encouraged to attend.

Credit 0 units.

Typical periods offered: Fall, Spring

PHIL 5080 Topics in Advanced Philosophy of Science

This course will vary in topics related to Philosophy of Science from semester to semester.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5090 Formal Methods for Philosophy

This course is an advanced course exploring formal methods in both logic and confirmation theory. It begins with an introduction to metatheory, which is explored in more depth in the 403-404 sequence on Mathematical Logic, addressing the basic metatheory for logic in addition to alternatives to standard first-order logic. The second part of the course focuses on modal and other intensional logics. The final part of the course focuses on non-monotonic logics, focusing especially on Bayesian confirmation theory and decision theory. Prerequisite: 6 units of philosophy or permission of the instructor.

Credit 3 units. A&S IQ: NSM, AN Art: NSM

Typical periods offered: Fall, Spring

PHIL 5130 Advanced Metaphysics

Through readings from both classical and contemporary sources, a single traditional metaphysical concern will be made the subject of careful and detailed analytic attention. Possible topics include such concepts as substance, category, cause, identity, reality, and possibility, and such positions as metaphysical realism, idealism, materialism, relativism, and irrealism. Prerequisites: one course in Philosophy at the 300-level, graduate standing, or permission of the instructor.

Credit 3 units. A&S IQ: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

PHIL 5151 Advanced Epistemology

Competing theories of knowledge and belief justification will be considered. Careful attention will be given to selected problems such as skepticism, certainty, foundations, coherence, perception, induction.

Credit 3 units.

Typical periods offered: Fall

PHIL 5200 Philosophy of Neuroscience

This course explores the philosophical foundations, implications, and challenges arising from the interdisciplinary field of neuroscience. We will delve into methodological issues specific to studying the brain, examine how neuroscience informs and challenges classical debates in the philosophy of mind, and consider the broader societal and ethical implications of our growing understanding of the neural basis of thought, behavior, and consciousness. Moving beyond methodology, we will investigate how neuroscientific findings impact our understanding of core philosophical concepts, including perception, memory, emotion, consciousness, and free will. Through careful engagement with seminal philosophical texts, cutting-edge

neuroscientific research articles, and lively discussions, students will develop a sophisticated understanding of the philosophical landscape shaped by our growing knowledge of the brain and its intricate relationship with the mind and behavior

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5210 Seminar: Scientific Explanation

This course will be a deep dive on recent work on mechanistic theories of scientific explanation in the context of the wider effort to build a theory of scientific explanation. Students are encouraged to approach the subject matter of this course with some particular, actual scientific explanation in mind. We will use the philosophical material as a critical lens on student-specific research topics. Students are expected to be self-driven and active participants in their own learning, and they should be willing to explore independent avenues of research as we read together. Prerequisite: Graduate standing or permission of instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5230 Topics in Ethics

Selected advanced topics in ethics.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5240 Metaethics

Ethics asks questions about right and wrong, good and bad, virtue and vice. Metaethics asks questions about ethics, including questions about whether we have any reason to do the right thing or to be virtuous, questions about whether it is possible to know the answer to ethical questions, and questions about what we mean by such ethical terms as right and wrong or good and bad. Influential metaethical views include relativism (on which ethical judgments are only true or false relative to an individual or culture) and moral skepticism (on which ethical knowledge is impossible). This course will introduce metaethics through an examination of selected texts and questions. Prerequisites: One previous course in philosophy at the 300 level, graduate standing, or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

PHIL 5315 Normative Ethical Theory

An exploration of the three major normative ethical theories debated by philosophers in the last hundred years: Kantian ethics, utilitarianism, and virtue theory. Authors covered in the course may include: Henry Sidgwick, R. M. Hare, R. B. Brandt, John Rawls, Bernard Williams, Philippa Foot, Thomas Nagel, Christine Korsgaard, Michael Slote, and Barbara Herman. Prerequisites: one course in Philosophy at the 300-level, graduate standing, or permission of the instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

PHIL 5340 Plato

An examination of some of Plato's most important dialogues, typically including the *Gorgias*, *Phaedo*, and *Republic*, with the aim of grasping the development of Plato's most influential thoughts in ethics and in metaphysics and epistemology. In order to provide both historical understanding and philosophical evaluation, attention will be paid to the context and structure of the dialogues and to the best of recent secondary literature.

The point of the course is to provide a survey by which advanced undergraduates and graduate

students can become acquainted with or deepen their acquaintance with Plato, an author who more or less invented philosophy as we understand it and who still stands above us all. As Bernard Williams has written, It is pointless to ask who is the world's greatest philosopher: for one thing there are many different ways of doing philosophy. But we can say what the various qualities of great philosophers are:

intellectual power and depth; a grasp of the sciences; a sense of the political, and of human destructiveness as well as creativity; a broad range and a fertile imagination; an unwillingness to settle for the superficially reassuring; and, in an unusually lucky case, the gifts of a great writer. If we ask which philosopher has, more than any other, combined all these qualities—to that question there is certainly an answer, Plato. ("Plato: The Invention of Philosophy," in *The Sense of the Past*, ed. M.F. Burnyeat [Princeton: Princeton University Press, 2006], pp. 148-186, at 179-180)

Accordingly, as we try to come to grips with Plato, we will be trying to come to grips with philosophy itself, how to do it.

This semester, the centerpiece will be, as it must be, Plato's *Republic*, the core of which is a question of ethics but which also includes important speculation about politics, psychology, general ontology, epistemology, and aesthetics. But we will also have a thematic focus, to track Plato's conception of philosophical ethics, that is, how Plato thinks about how to settle how a person should live. (How!) Plato inherited from Socrates an obsession with the question of how we should live, and he inherited from Socrates the broad answer that we must be philosophers to live well. But how exactly are we supposed to philosophize, and how exactly is that supposed to help us live well? We will set up these questions (and start trying to answer them) by studying the *Apology* of Socrates, the *Euthydemus*, and *Diotima's* teaching in the *Symposium*, before we turn to the *Republic*. Then, after we have followed the *Republic's* wide-ranging tour, we will tackle the *Philebus*, which extends Plato's reflections on pleasure, knowledge, and the good life.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5400 Advanced Political and Social Philosophy

A selective investigation of one or two advanced topics in the philosophical understanding of society, government, and culture. Readings may include both historical and contemporary materials. Possible topics include: liberalism, socialism, communitarianism, citizenship, nationalism, cosmopolitanism, social contract theory, anarchism, and the rights of cultural minorities. Prerequisites: one course in Philosophy at the 300-level, graduate standing, or permission of the instructor.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall

PHIL 5490 History of Analytic Philosophy

This course will begin with the reaction of G.E. Moore to the dominant idealism of the 19th century, together with the advances in formal approaches launched by Gottlob Frege and Bertrand Russell. It will engage in the rise of ordinary language philosophy through the later work of Ludwig Wittgenstein, as well as the important influence of the Vienna Circle and the rise and fall of Logical Positivism/Empiricism, culminating in the resurgence of metaphysics with the work of Saul Kripke. The course will close with a look at philosophy that is still in the analytic tradition after analytic philosophy itself had been abandoned. Prerequisites: One previous course in philosophy at the 300 level, graduate standing, or permission of instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

PHIL 5530 Hellenistic Philosophy

This course explores Hellenistic philosophy.

Credit 0 units.

Typical periods offered: Spring

PHIL 5570 Kant's Critique of Pure Reason

An in-depth investigation of Kant's Critique of Pure Reason, one of the most important books in the history of Western philosophy. Some supplementary readings from other philosophers will be used to situate Kant's work in a systematic and historical context, to present some 'Kantian' positions in current philosophy, and to bring in some important contrasting views and criticisms. Prerequisites: one course in Philosophy at the 300-level, graduate standing, or permission of the instructor.

Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

PHIL 5651 Topics in the History of Philosophy:

Study of individual philosophers or themes from the ancient, medieval, and/or modern periods. Examples: Spinoza, St. Thomas Aquinas, neo-Platonism, universals in ancient and medieval thought, ancient and modern theories of space and time. Prerequisite: 6 units in philosophy, or permission of instructor.

Credit 3 units. A&S IQ: HUM BU: HUM EN: H

Typical periods offered: Fall, Spring

PHIL 5700 Seminar in Ethics

seminar in ethics

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5740 Seminar in Metaphysics

Prerequisite: graduate standing or permission of the instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

PHIL 5901 Res Master Level

Master's research course

Credit 1-12 units.

Typical periods offered: Fall, Spring

PHIL 5910 Res Doctoral Level

Dissertation/Research

Credit 1-12 units.

Typical periods offered: Fall, Spring

PHIL 7883 Master's Continuing Student Status

This course is for master's-level continuing student status.

Credit 0 units.

Typical periods offered: Fall, Spring

PHIL 7885 Masters Nonresident

This course is for master's students not in residence.

Credit 0 units.

Typical periods offered: Fall, Spring

PHIL 8000 Dissertation Seminar

Advanced research training and professional development for students in the 4th, 5th, and 6th years of the Philosophy and PNP PhD programs.

Credit 0 units.

Typical periods offered: Fall, Spring

PHIL 8884 Doctoral Continuing Student Status

This course is to indicate doctoral continuing student status.

Credit 0 units.

Typical periods offered: Fall, Spring

PHIL 8886 Doctoral Nonresident

This course is for doctoral students who are not in residence at the time.

Credit 0 units.

Typical periods offered: Fall, Spring

Philosophy, PhD

Phone: 314-935-6670

Email: philosophy@wustl.edu

Website: <http://philosophy.wustl.edu/graduate-programs>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 45 units
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in ASGS 9000 Full-Time Graduate Research/Study. This will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** All courses must be passed with a grade of B– or higher.

Required Courses

All students must take 15 graduate courses, defined as 3-unit courses at the 5000 level or above. If a student needs to take a course that is relevant to their research but it does not have a 5000-level section, then the student will need to meet with the Director of Graduate Studies to discuss other options.

Credits taken outside of Washington University or its programs cannot be transferred in or applied to the PhD program requirements.

Formal Methods Requirement (One course)

All students must take a course in formal methods, either PHIL 5090 Formal Methods for Philosophy, which is normally offered once a year, or another course approved by the Director of Graduate Studies.

Distribution Requirement (Six courses)

All students must take six regular graduate-only courses offered by the Philosophy Department, including at least one in each of the four distribution areas:

- Epistemology and Metaphysics
- Mind and Language
- Value Theory
- History of Philosophy

Note: Courses satisfying the distribution requirement are "graduate only" in the sense that they do not have associated 4000-level sections. Normally, only graduate students will be able to enroll in these courses.

Prospectus Seminar Requirement (One course)

All students must take the following course:

- PHIL 5030 Prospectus Seminar

In the prospectus seminar (normally taken during the student's fifth semester), graduate students work intensively on the preparation of their prospectus.

Electives (Seven courses)

To complete the required 15 courses, students must take seven additional graduate courses. Elective courses may include courses in Philosophy or Philosophy-Neuroscience-Psychology, courses outside of philosophy, independent studies in philosophy, and graduate philosophy courses at Saint Louis University or the University of Missouri–St. Louis through the Inter-University Exchange Program.

Colloquium Attendance

Students are expected attend departmental colloquium talks held during each semester. Exceptions may be granted by the Director of Graduate Studies when appropriate (e.g., if a student needs to attend a class that is scheduled at the same time).

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

The successful completion of the distribution requirement (six graduate-only courses), the formal methods course requirement, and the prospectus seminar requirement, with grades of B– or better in each course, constitutes the passage of the qualifying exam.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Students normally complete all pre-candidacy requirements (coursework and qualifying exams) and advance to doctoral candidacy by the end of the fifth semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number

of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

All Philosophy PhD students are required to complete *four* Mentored Teaching Experiences, normally in their second and third years.

Dissertation Seminar

Starting in the fourth year, all students must satisfactorily complete PHIL 8000 Dissertation Seminar, which is devoted to research training and dissertation project development, whenever it is offered (normally one semester each year).

Note: PHIL 8000 Dissertation Seminar is a 0-unit course and does not count toward the fulfillment of coursework requirements.

Prospectus

All students must successfully defend a dissertation prospectus before a committee of at least three faculty members, one of whom (the "prospectus advisor") will supervise the preparation of the prospectus and who will normally go on to serve as the dissertation advisor (see below). Normally, students defend their prospectus by the end of the fifth semester.

A dissertation prospectus states a problem, a response to the problem, a reckoning of how this response contributes to existing philosophical literature, and an overview of the case for the response. The prospectus should be accompanied by a working bibliography. The structure and length of individual prospectuses varies and is to be determined in consultation and collaboration with the prospectus advisor.

The possible outcomes of a prospectus defense are Pass and No Pass. Students may make additional attempts in the event of a No Pass outcome. The prospectus advisor will inform the Director of Graduate Studies and the Graduate Program Administrator when a student has successfully defended their prospectus.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

In the Philosophy PhD program, students prepare a dissertation under the supervision of a faculty member (the "dissertation advisor"). A dissertation is a substantial piece of original philosophical research. The structure and length of individual dissertations varies and is to be determined in consultation and collaboration with the dissertation advisor.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.

3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

In the Philosophy PhD program, the possible outcomes of a dissertation defense are Pass, Revisions, and No Pass. When revisions are required, the dissertation advisor will provide, in writing, a description of what revisions are required and a deadline for revisions that is no more than three months after the dissertation defense. When the dissertation is resubmitted, the dissertation advisor will determine if the revisions are satisfactory.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate

Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way

In the Philosophy PhD program, students can receive a Master of Arts once they have completed their required coursework and fulfilled the qualifying examinations requirement.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching is central to philosophy. The practice of philosophy has required dialogue with other practitioners and novices for about 2400 years, and there is no way to teach philosophy except by teaching the doing of philosophy. So an education in philosophy is unavoidably an education in how to engage others in philosophical inquiry. The PhD in philosophy is not viewed as a specific qualification for any job other than teaching university and college courses. So it is important to offer specific training to help young philosophers begin to learn how to engage others in philosophical inquiry in the specific formats that universities and colleges impose, where that is consistent with their educational and professional goals.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Philosophy PhD students are required to do two Preparatory Engagement activities:

1. All students are required to participate in the Center for Teaching and Learning's Teaching Orientation before their first Mentored Teaching Experience (MTE) engagement.
2. In any academic year in which they are doing an MTE, students are required to participate in an MTE Orientation organized in the Fall by the Philosophy Department.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Philosophy requires 60 MER units of AI engagement at 15 MER units each. AIs are normally expected to grade assignments, hold office hours, and deliver two observed guest lectures. AIs are assigned to various courses in Philosophy and Philosophy-Neuroscience-Psychology (PNP), normally at the 1000, 2000, or 3000 level. There are no restrictions on which courses can have an AI.

Ordinarily, students will complete their AIs in their second and third year of their PhD program. Thus, they should have expected to complete MER by the time that they advance to candidacy, and can spend their final years of fellowship focusing on the dissertation and research.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

ASGS 8015	Take four times

Philosophy-Neuroscience-Psychology

The Washington University Philosophy Department houses two PhD programs: a program in **Philosophy** — with strengths in philosophy of mind, epistemology, political philosophy, philosophy of science, metaphysics, and the history of philosophy — and a special interdisciplinary program in **Philosophy-Neuroscience-Psychology (PNP)** that maintains a core faculty in philosophy and draws on Washington University's exceptional psychology and neuroscience programs.

The department accepts about 10% of the applicants to these PhD programs and maintains about 25 students in both programs. We are especially open to interdisciplinary work, and we are committed to providing methodologically and substantively broad training. We welcome applicants from a wide range of backgrounds, and the most successful applicants have evidence of philosophical talent and promise.

Phone: 314-935-6670
 Email: philosophy@wustl.edu
 Website: <http://philosophy.wustl.edu/graduate-programs>

Faculty

Chair, Director of Philosophy

Lori Watson
 Professor
 PhD, University of Illinois-Chicago

Director of Graduate Studies

Matt McGrath
 Professor
 PhD, Brown University

Director of Undergraduate Studies

Anne Margaret Baxley
 Associate Professor
 PhD, University of California, San Diego

Director of Philosophy- Neuroscience- Psychology

Casey O'Callaghan
Professor
PhD, Princeton University

Department Faculty

Anne Baril
Lecturer
PhD, University of Arizona

Eric Brown
Associate Professor
PhD, University of Chicago

Rebecca "Becko" Copenhaver
Professor
PhD, Cornell University

Carl Craver
Professor
PhD, University of Pittsburgh

Marina DiMarco
Assistant Professor
PhD, University of Pittsburgh

Jason Gardner
Lecturer
PhD, Washington University in St. Louis

Allan Hazlett
Professor
PhD, Brown University

John Heil
Professor
PhD, Vanderbilt University

Brett Hyde
Associate Professor
PhD, Rutgers University

David Kinney
Assistant Professor
PhD, London School of Economics

Nicholas Koziol
Senior Lecturer
PhD, University of Chicago

Jonathan Kvanvig
Professor
PhD, University of Notre Dame

Ron Mallon
Professor
PhD, Rutgers University

Anya Plutynski
Professor
PhD, University of Pennsylvania

Kit Wellman
Professor
PhD, University of Arizona

Emeritus Faculty

Stanley Paulson
Professor Emeritus
PhD, University of Wisconsin-Madison

Jerome P. Schiller
Professor Emeritus
PhD, Harvard University

Degree Requirements

- Philosophy-Neuroscience-Psychology, PhD (p. 381)

Courses

PNP 5000 Independent Work
Credit variable; max 6 units (upon approval from dept.). A maximum of 3 units may be applied toward upper division credits required for the major. Contact the department for further details.
Credit 1-6 units.
Typical periods offered: Fall, Spring

PNP 5010 PNP Dissertation Preparation Seminar
The purpose of this course is to provide a forum for graduate students improve their works in progress. Students will receive feedback on written and oral presentations of chapters of their dissertation, qualifying papers, and prospectuses. Students will circulate their written work in advance for written feedback from other members of the course. Students will also present their own work to the group. All registered participants in the group will also be required to provide written feedback and to participate in group discussions. Prerequisite: P-N-P graduate standing.
Credit 0 units.
Typical periods offered: Fall

PNP 5510 PNP Seminar
Subject varies each semester. Prerequisites: One 300-level philosophy course (Phil 315 or PNP 315 is recommended) as well as PNP major standing or approval of instructor.
Credit 3 units. A&S IQ: SSC EN: S
Typical periods offered: Fall, Spring

PNP 5950 PNP Seminar
Subject varies per semester. Not always offered as writing intensive, refer to individual semester listing. Prerequisite: A 300 level Philosophy course (Phil/PNP 315 is recommended); and PNP Major standing or approval of Instructor.
Credit 3 units. A&S IQ: SSC EN: S

Philosophy- Neuroscience- Psychology, PhD

Phone: 314-935-6670
Email: philosophy@wustl.edu
Website: <http://philosophy.wustl.edu/graduate-programs>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 45
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific ASGS 9000 Full-Time Graduate Research/Study. This will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** All courses must be passed with a grade of B– or above.

Required Courses

All students must take 15 graduate courses, defined as 3-unit courses at the 5000 level or above. If a student needs to take a course that is relevant to their research but it does not have a 5000-level section, then the student will need to meet with the Director of Graduate Studies to discuss other options.

Credits taken outside of Washington University or its programs cannot be transferred in and applied to the PhD program requirements.

Formal Methods Requirement (One course)

All students must take a course in formal methods, either PHIL 5090 Formal Methods for Philosophy, which is normally offered once a year, or another course approved by the Director of Graduate Studies.

Distribution Requirement (Six courses)

All students must take six regular graduate-only courses offered by the Philosophy Department, including at least one in each of the four distribution areas:

- Epistemology and Metaphysics
- Mind and Language
- Value Theory
- History of Philosophy

Note: Courses satisfying the distribution requirement are "graduate only" in the sense that they do not have associated 4000-level sections. Normally, only graduate students will be able to enroll in these courses.

Empirical Courses (Five courses)

All students must take the following:

- One course in research methods or statistics
- Four courses in the sciences of the mind/brain or behavior

Prospectus Seminar Requirement (One course)

All students must take the following:

- PHIL 5030 Prospectus Seminar

In the prospectus seminar, which is normally taken during the student's fifth semester, graduate students work intensively on the preparation of their prospectus.

Electives (Two courses)

To complete the required 15 courses, students must take two additional graduate courses. Elective courses may include courses in Philosophy or Philosophy-Neuroscience-Psychology, courses outside of philosophy, independent studies in philosophy, and graduate philosophy courses at Saint Louis University or the University of Missouri–St Louis through the Inter-University Exchange Program.

Colloquium Attendance

Students are expected to attend departmental colloquium talks that are held each semester. Exceptions may be granted by the Director of Graduate Studies when appropriate (e.g., if a student needs to attend a class that is scheduled at the same time).

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

The successful completion of the distribution requirement (six graduate-only courses) and the prospectus seminar requirement, with grades of B– or better in each course, constitutes passage of the qualifying exam.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Students normally complete all pre-candidacy requirements (coursework and qualifying exams) and advance to doctoral candidacy by the end of the fifth semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience

Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

In the Philosophy-Neuroscience-Psychology PhD program, all students are required to complete *four* Mentored Teaching Experiences, normally in their second and third years.

Dissertation Seminar

Starting in the fourth year, all students must satisfactorily complete PHIL 8000 Dissertation Seminar, which is devoted to research training and dissertation project development, whenever it is offered (normally one semester each year).

Note: PHIL 8000 Dissertation Seminar is a 0-unit course and does not count toward the fulfillment of coursework requirements.

Prospectus

All students must successfully defend a dissertation prospectus before a committee of at least three faculty members, one of whom (the "prospectus advisor") will supervise the preparation of the prospectus and who will normally go on to serve as the dissertation advisor (see below). Normally, students defend their prospectus before the end of their fourth year of study.

A dissertation prospectus states a problem, a response to the problem, a reckoning of how this response contributes to existing philosophical literature, and an overview of the case for the response. The prospectus should be accompanied by a working bibliography. The structure and length of individual prospectuses varies and is to be determined in consultation and collaboration with the prospectus advisor.

The possible outcomes of a prospectus defense are Pass and No Pass. Students may make additional attempts in the event of a No Pass outcome. The prospectus advisor will inform the Director of Graduate Studies and the Graduate Program Administrator when a student has successfully defended their prospectus.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

In the Philosophy-Neuroscience-Psychology PhD program, students prepare a dissertation under the supervision of a faculty member (the "dissertation advisor"). A dissertation is a substantial piece of original philosophical research. The structure and length of individual dissertations varies and is to be determined in consultation and collaboration with the dissertation advisor.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
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The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

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Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

In the Philosophy-Neuroscience-Psychology PhD program, the possible outcomes of a dissertation defense are Pass, Revisions, and No Pass. When revisions are required, the dissertation advisor will provide, in writing, a description of what revisions are required and a deadline for revisions that is no more than three months after the dissertation defense. When the dissertation is resubmitted, the dissertation advisor will determine if the revisions are satisfactory.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

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Master's Degree Along the Way

In the Philosophy-Neuroscience-Psychology PhD program, students can receive a Master of Arts once they have completed their required coursework and fulfilled the qualifying examination requirement.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching is central to philosophy. The practice of philosophy has required dialogue with other practitioners and novices for about 2400 years, and there is no way to teach philosophy except by teaching the doing of philosophy. So an education in philosophy is unavoidably an education in how to engage others in philosophical inquiry. The PhD in philosophy is not viewed as a specific qualification for any job other than teaching university and college courses. So it is important to offer specific training to help young philosophers begin to learn how to engage others in philosophical inquiry in the specific formats that universities and colleges impose, where that is consistent with their educational and professional goals.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Philosophy and Philosophy-Neuroscience-Psychology PhD students are required to do two Preparatory Engagement activities:

1. All students are required to participate in the Center for Teaching and Learning's Teaching Orientation before their first Mentored Teaching Experience (MTE) engagement.
2. In any academic year in which they are doing an MTE, students are required to participate in an MTE Orientation organized in the fall by the Philosophy Department.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Philosophy requires 60 MER units of AI engagement at 15 MER units each. AIs are normally expected to grade assignments, hold office hours, and deliver two observed guest lectures. AIs are assigned to various courses in Philosophy and Philosophy-Neuroscience-Psychology (PNP), normally at the 1000, 2000, or 3000 level. There are no restrictions on which courses can have an AI.

Ordinarily, students will complete their AIs in their second and third year of their PhD program. Thus, they should have expected to complete MER by the time that they advance to candidacy, and can spend their final years of fellowship focusing on the dissertation and research.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

ASGS 8015	Take four times

Physics

The Department of Physics offers Master of Arts (MA) and Doctor of Philosophy (PhD) programs in physics. Research in this department covers a wide area of experimental and theoretical physics and benefits from close contacts with nuclear and inorganic chemists in the Department of Chemistry; planetary scientists in the Department of Earth, Environmental, and Planetary Sciences; applied scientists in the McKelvey School of Engineering and the Institute of Materials Science & Engineering; and biological scientists both on the Danforth Campus and at the School of Medicine. The department is a major participant in the McDonnell Center for the Space Sciences, the Institute of Materials Science & Engineering, and the Center for Quantum Leaps.

Experimental research areas include the following:

- Astrophysics (observations of cosmic rays, gamma rays, X-rays, dark matter detection, and high-precision tests of gravity)
- Space sciences (laboratory analysis of meteorites, stardust, and interplanetary dust particles)
- Condensed matter and materials physics (graphene and other two-dimensional atomic crystals, nanostructured materials, metallic glasses and liquids, magnetism and superconductivity, high-pressure physics, and topological materials)
- Quantum information science (quantum sensing and simulation and computation)
- Biophysics (computational neurophysics and systems cell biology)

Theoretical research areas include the following:

- Biophysics (nonequilibrium dynamics in biological cells and theory of the microbiome)
- Condensed matter physics and quantum materials (strongly correlated electron systems, topological phases, excited states of many-electron systems, density functional theory, glasses, quantum equilibrium and non-equilibrium phenomena, quantum memory, statistical mechanics, and networks and machine learning)
- Elementary particle physics (astroparticle physics, dark matter, theoretical cosmology, strong interactions, non-Hermitian Hamiltonians, and quark physics beyond the Standard Model)
- Nuclear theory (atomic nuclei, infinite neutron and nuclear matter, nuclear structure and reactions, ab initio calculations, nuclear models, quark matter, neutron star mergers, and physics beyond the Standard Model)

Students spend their first two years (four semesters) taking graduate courses. At the end of this time, they will typically have completed requirements for the master's degree. Students planning to complete a PhD will also need to find a dissertation advisor and start their research. PhD candidates will complete two semesters of mentored teaching experiences. After achieving the required course grades and passing an oral examination at the end of their second year, students will work on their research and write their dissertation. The PhD program typically takes five years to complete.

Website: <http://physics.wustl.edu/graduate>

Faculty

Chair

Henric Krawczynski

Wilfred R. and Ann Lee Konneker Distinguished Professor in Physics
PhD, University of Hamburg
Experimental high-energy astrophysics

Associate Chair

Saori Pastore

Associate Professor
PhD, Old Dominion University
Theoretical nuclear physics

Director of Graduate Studies

Alexander Seidel

Professor
PhD, Massachusetts Institute of Technology
Theoretical condensed matter physics

Director of Undergraduate Studies

Manel Errando

Associate Professor
PhD, Universitat Autònoma de Barcelona
High-energy astrophysics, black holes, active galactic nuclei

Department Faculty

Shaffique Adam

Professor
PhD, Cornell University
Condensed Matter Theory

Mark Alford

Professor
PhD, Harvard University
Nuclear/particle physics

Sachiko Amari

Research Faculty
PhD, Kobe University
Cosmochemistry, presolar grains

Carl M. Bender

Professor Emeriti
PhD, Harvard University

Claude W. Bernard

Professor Emeriti
PhD, Harvard University

Thomas Bernatowicz

Professor Emeriti
PhD, Washington University

Robert Binns

Professor Emeriti
PhD, Colorado State University

James H. Buckley

Professor
PhD, University of Chicago
Experimental high-energy astrophysics

Anders E. Carlsson

Professor Emeriti
PhD, Harvard University
Biophysics

Yuran (Alex) Chen

Assistant Professor
PhD, Columbia University
High-energy astrophysics, neutron stars, black holes, and plasma physics

John W. Clark

Professor Emeriti
PhD, Washington University

Mark S. Conradi

Professor Emeriti
PhD, Washington University

Ramanath Cowsik

James S. McDonnell Professor of Space Sciences
PhD, University of Bombay
Astrophysics and space sciences

Tansu Daylan

Assistant Professor
PhD, Harvard University
Exoplanets, dark matter, and astrostatistics

Bhupal Dev

Associate Professor
PhD, University of Maryland, College Park
Theoretical astroparticle physics and cosmology

Willem H. Dickhoff

Professor
PhD, Free University, Amsterdam
Many-body theory

Francesc Ferrer

Associate Professor
PhD, Universitat Autònoma de Barcelona
Theoretical astroparticle physics and cosmology

Jeffrey Gillis

Research Professor
PhD, Rice University
Experimental astrophysics

Patrick C. Gibbons

Professor Emeriti
PhD, Harvard University

Trevor GrandPre

Assistant Professor
PhD, University of California, Berkeley
Biophysics, biomolecular condensates, gene regulation, adaptive immune systems

Erik Henriksen

Associate Professor
PhD, Columbia University
Condensed matter and materials science

Charles M. Hohenberg

Professor Emeriti
PhD, University of California, Berkeley

Mairin Hynes

Teaching Professor
PhD, Washington University
Physics education, Pedagogy, space sciences

Martin H. Israel

Professor Emeriti
PhD, California Institute of Technology

Jonathan I. Katz

Professor
PhD, Cornell University
Theoretical astrophysics

Augusto Medeiros da Rosa

Lecturer
PhD, Washington University
Cosmology, particle physics

Alexander Meshik

Research Professor
PhD, Vernadsky Institute of Cosmochemistry
Astrophysics, solar winds, nano-diamonds

James G. Miller

Professor Emeriti
PhD, Washington University

Shankar Mukherji

Assistant Professor
PhD, Massachusetts Institute of Technology/Harvard Medical School
Systems cell biology

Michael Nowak

Research Professor
PhD, Stanford University
High energy astrophysics, compact objects

Zohar Nussinov

Professor
PhD, University of California, Los Angeles
Theoretical condensed matter physics

Michael C. Ogilvie

Professor Emeriti
PhD, Brown University
Theoretical particle physics

Maria Piarulli

Associate Professor
PhD, Old Dominion University
Theoretical nuclear physics

Olga Pravdivtseva

Research Associate Professor
PhD, Vernadsky Institute, Russian Academy of Sciences
Cosmochemistry, early solar system chronology

Karthik Ramanathan

Assistant Professor
PhD, University of Chicago
Astroparticle Physics

Sheng Ran

Assistant Professor
PhD, Iowa State University
Condensed matter and quantum materials

Brian Rauch

Research Associate Professor
PhD, Washington University
Cosmic ray astrophysics, neutrinos, gamma rays

James S. Schilling

Professor Emeriti
PhD, University of Wisconsin-Madison

Lee G. Sobotka

Joint Professor
PhD, University of California, Berkeley
(Chemistry)
Experimental nuclear physics

Stuart A. Solin

Professor Emeriti
PhD, Purdue University

Wai Mo Suen

Professor Emeriti
PhD, California Institute of Technology

Mikhail Tikhonov

Associate Professor
PhD, Princeton University
Microbiome, microbial ecology, and evolution

Xi Wang

Assistant Professor
PhD, Florida State University
Quantum Information and materials

Ralf Wessel

Professor
PhD, University of Cambridge
Biophysics

Clifford Will

Professor Emeriti
PhD, California Institute of Technology

Li Yang

Albert Gordon Hill Professor in Physics
PhD, Georgia Institute of Technology
Condensed matter theory and computational materials physics

Yajie Yuan

Assistant Professor
PhD, Stanford University
Theoretical high-energy astrophysics

Chuanwei Zhang

Professor
PhD, University of Texas at Austin
Quantum Information

Chong Zu

Assistant Professor
PhD, Tsinghua University
Atomic, molecular and optical physics; condensed matter; and quantum information

Degree Requirements

- Physics, Accelerated BA/MA (p. 392)
- Physics, MA (p. 393)
- Physics, PhD (p. 394)

Courses

PHYSICS 5000 Independent Work

Prerequisites: senior standing and apply for approval using the Physics independent study web form <https://physics.wustl.edu/independent-study>. Program and credit to be determined; maximum 6 units. Credit 6 units.

Typical periods offered: Fall, Spring

PHYSICS 5010 Theoretical Physics

The first part of a two-semester course reviewing the mathematical methods essential for the study of physics. Theory of functions of a complex variable, residue theory; review of ordinary differential equations; introduction to partial differential equations; integral transforms.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5011 Mechanics

Motion of a point particle, rotational motion, oscillation, gravitation and central forces, Lagrangian and Hamiltonian formulation.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

PHYSICS 5020 Methods of Theoretical Physics II

Continuation of Physics 5010. Introduction to function spaces; self-adjoint and unitary operators; eigenvalue problems, partial differential equations, special functions; integral equations; introduction to group theory.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5021 Electricity and Magnetism I

Starting from Coulomb's law, the Biot-Savart law, and Faraday's law, the electrical and magnetic fields are defined and applied. Maxwell's equations are derived and their consequences, such as electromagnetic waves and relativity, are explored.

Credit 3 units. A&S IQ: NSM, AN BU: SCI

Typical periods offered: Fall

PHYSICS 5022 Electricity and Magnetism II

The second course in a two part series covering the classical theory of electricity and magnetism leading to the derivation and application of Maxwell's equation. Topics in electrodynamics including Faraday's law, the displacement current and Maxwell's equations in vacuum and in matter are covered. Electromagnetic waves and radiation, special relativity and relativistic electrodynamics will also be discussed.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5027 Introduction to Computational Physics

What does it mean to solve a research problem using a computer? What is the difference between someone ran a simulation and an interesting research result? And what skills does it take? Familiarity with a programming language is, of course, essential, but that is only the beginning. This course will focus on the methodology of computational research, touching also on topics in numerical analysis, statistics and visualization. The format will combine lectures and hands-on experience, with emphasis on research-style small-group projects.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

PHYSICS 5035 Nuclear and Radiochemistry Lab

Application of radiochemistry to problems in chemistry, physics, and nuclear medicine, with emphasis on particle detectors and experimental techniques. Prerequisites: 3 units of physical chemistry or quantum mechanics, or permission of instructor. Five hours of laboratory a week.

Credit 3 units. A&S IQ: NSM Art: NSM

PHYSICS 5050 Classical Electrodynamics I

Classical electromagnetism via Maxwell's equations. Electric and magnetic fields from static charge and current distributions. Mathematical techniques for solving electrostatic and magnetostatic problems. Electrostatic and magnetostatic forces and energies.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5054 Physics of Living Systems

One of the grand challenges in contemporary biophysics is placing our understanding of cellular systems on a firm quantitative footing. How does the collective activity of molecules enable the cell to sense its environment, make decisions, grow and develop? This course, aimed at physical and life science students, will serve as an introduction to the physical principles and mathematical techniques underlying the analysis of systems and synthetic biology. Topics will include modeling gene and signaling networks, the regulation of intracellular structures, and pattern formation in development. Students in this course can expect to learn both analytical and computer simulation approaches to fundamental problems in biology, biophysics, and biotechnology. This course is for Graduate students ONLY.

Credit 0 units.

Typical periods offered: Fall, Spring

PHYSICS 5060 Classical Electrodynamics II

Time-varying electric and magnetic fields. Electromagnetic waves and radiation; simple antennas. Waveguides and effects of dispersion. Retardation effects and special relativity.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5063 Statistical Mechanics and Thermodynamics

Basic methods of classical and quantum statistical mechanics, thermodynamics, and transport theory.

Credit 3 units. A&S IQ: NSM, AN

Typical periods offered: Fall

PHYSICS 5068 Introduction to Quantum Information

A general introduction to the field of quantum information: physics of information processing, quantum logic, quantum algorithms, physical hardware for quantum computation, quantum communications, quantum error corrections, quantum sensing. An independent research project under the instructor's supervision is required.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5070 Classical Mechanics

The culminating achievements in this classical discipline are presented: the Lagrangian and Hamiltonian formulation of the equations of motion, action principles and the Hamilton-Jacobi equation. Applications to constrained systems, many-body systems, continuous systems and classical fields are included. Perturbation theory and general relativity are discussed briefly.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5071 Quantum Mechanics

Origins of quantum theory, wave packets and uncertainty relations, Schroedinger's equation in one dimension, step potentials and harmonic oscillators, eigenfunctions and eigenvalues, Schroedinger's equation in three dimensions, the hydrogen atom, symmetry, spin and the periodic table, approximation methods for time independent problems, quantum statistics. This section is for Graduate students ONLY.

Credit 3 units. A&S IQ: NSM Art: NSM

PHYSICS 5072 Solid State Physics

Crystal structures, binding energies, thermal properties, dielectrics, magnetism, free electron theory of metals, band theory, semiconductors, defects in solids. This course is for Graduate students ONLY.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

PHYSICS 5074 Introduction to Particle Physics

Introduction to the standard model of particle physics, including symmetries, conservation laws, the weak interaction, the strong interaction, quark confinement, and some more exotic ideas such as grand unified theories. This course is for Graduate students ONLY.

Credit 3 units. A&S IQ: NSM, AN Art: NSM

Typical periods offered: Spring

PHYSICS 5078 From Black Holes to the Big Bang

An introduction to general relativity. The goal will be to illustrate important features of general relativity without the full-blown mathematics of Einstein's equations by restricting attention to spherically symmetric spacetimes. Topics will include: principle of equivalence; curved spacetime; spherical stars and black holes; the Big Bang model, observational cosmology.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

PHYSICS 5080 Artificial Intelligence and Machine Learning Methods With Applications to Physics

The course will introduce key ideas of AI and machine learning from a statistical physics perspective. Essentials of statistical distributions, kernel methods, neural networks, large language models, diffusion models, and many other tools will be presented from this physics based approach. Students will apply these techniques to problems in physics. Apart from the very first assignments, nearly all homework problems will assume the use of Python. If you do not know Python, there will be an additional very brief introduction to Python that the instructor will give in addition to the course lectures. This course is for Graduate students ONLY.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5090 Nonlinear Dynamics

The course will treat the theoretical foundations of nonlinear dynamics, and its applications to phenomena in diverse fields including physics, biology, and chemistry. Topics will include phase plane analysis, stability analysis, bifurcations, chaos, and iterated maps.

Credit 3 units.

Typical periods offered: Fall, Spring

PHYSICS 5230 Quantum Mechanics I

Provides a rigorous introduction to quantum mechanics with an emphasis on formalism. The course begins with review of the theory of linear (state) vector spaces and the quantum theory of measurement. Topics covered include dynamics of quantized systems, the quantum theory of angular momentum, density matrix formalism, and advanced topics in quantum measurement theory.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5240 Quantum Mechanics II

Review of wave mechanics, scattering theory. Measurement algebra and the foundations of nonrelativistic quantum theory. Mathematical techniques for solution, perturbation theory. Applications to atomic, molecular, nuclear, and solid state problems. Introduction to relativistic quantum theory and quantized wave fields.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5290 Statistical Mechanics

Gibbs' formalism of statistical mechanics and applications to thermodynamics. Quantum statistical mechanics and degenerate matter. General theory of equilibrium including phase transitions and critical phenomena. Interacting particles including non-ideal gases, ferromagnetism, and superconductivity. Transport theory, irreversible processes.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5300 Advanced Topics in Statistical Mechanics

Critical phenomena and renormalization group theory: scaling, universality, exact solutions, series expansions, computer simulations, ϵ -expansion. Role of solitons and instantons in phase transitions. Quantum fluids: superfluidity and superconductivity. Linear response theory and disordered systems.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5321 Electronic Laboratory

Credit 3 units.

PHYSICS 5322 Physical Measurement Laboratory

A variety of classical and modern experiments in physics, including five experiments in nuclear radiation. Use of computers in experiment control, data acquisition, and data analysis. Development of skills in writing lab notebooks and formal reports and giving short oral presentations on experiments. Two laboratory periods each week.

Credit 3 units. A&S IQ: NSM, AN, WI Art: NSM BU: SCI

Typical periods offered: Fall

PHYSICS 5330 Planets and Life in the Universe

In this course, we will explore the history, methods, outcomes, and broad impacts of exoplanet research and how these are connected to our search for life beyond planet Earth. Following an engaging contextual introduction at the beginning of the lectures, topics will be presented with an accessible mathematical treatment (e.g., geometrical derivations of the two-body transit problem).

Credit 3 units. A&S IQ: NSM, AN Art: NSM

Typical periods offered: Fall

PHYSICS 5370 Kinetics of Materials

A general discussion of phase formation and phase transformation in solids and liquids. Topics include equilibrium and non-equilibrium thermodynamics, equilibrium and metastable phase diagrams, nucleation and growth, spinodal transformations, diffusion and interface limited processes, shear type transformations and order/disorder transformations. A background in thermodynamics, statistical mechanics, and solid state physics is strongly recommended.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5400 Quantum Theory of Many-Particle Systems

Develops a modern approach to quantitative microscopic description of strongly-interacting quantum many-particle systems, including the helium liquids, nuclear matter, neutron star matter, nuclei, and strongly-coupled electron systems. Emphasis is placed on the method of self-consistent Green's functions. Diagram resummation and field theoretic techniques are introduced. Applications are discussed that cover the Hartree-Fock method for atoms, Bose-Einstein condensation of atoms, etc. The microscopic basis for pairing in superfluids and superconductors is also examined.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5420 Physics of Finite and Infinite Nuclear Systems

Quantum mechanics of finite and infinite systems of protons and neutrons. Interaction between nucleons. Independent-particle model of nuclei and shell structure. Contrast with atomic shell model. Isospin symmetry. Information from weakly and strongly interacting probes of nuclei. Nuclear decay properties and some historical context. Many-particle description of nuclear systems. Single-particle versus collective phenomena. Properties of excited states. Bulk properties of nuclei. Nuclear and neutron matter. Role of different energy scales in determining nuclear properties: influence of long-range, short-range, and medium-induced interactions. Pairing correlations in nuclear systems. Relevance of nuclear phenomena and experiments for astrophysics and particle physics. This course is for Graduate students ONLY.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5430 Group Theory and Symmetries in Physics

Symmetries offer beautiful explanations for many otherwise incomprehensible physical phenomena in nature. Group theory is the underlying mathematical framework for studying symmetries, with far-reaching applications in many areas of physics, including solid-state physics, atomic and molecular physics, gravitational physics, and particle physics. We will discuss many of the fascinating mathematical aspects of group theory while highlighting its physics applications. The following topics will be covered: general properties of groups (definition, subgroups and cosets, quotient group, homo- and isomorphism), representation theory (general group actions, direct sums and tensor products, Wigner-Eckart theorem, Young tableaux), and discrete groups (cyclicity, characters, examples), Lie groups and Lie algebra (Cartan-Weyl basis, roots and weights, Dynkin diagrams, Casimir operators, Clebsch-Gordan coefficients, classification of simple Lie algebras), space-time symmetries (translation and rotation, Lorentz and Poincaré groups, conformal symmetry, supersymmetry and superalgebra), and gauge symmetries (Abelian and non-Abelian, Standard Model, Grand Unified Theories).

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5440 Superconductivity

This course introduces the theory and phenomena of superconductivity, from its experimental discovery to modern microscopic theories and applications. Students will learn both the phenomenological descriptions (London equations, Ginzburg-Landau theory) and the microscopic foundations (Cooper pairing, BCS theory, electron-phonon interactions). Special emphasis will be given to applications such as superconducting magnets, RF cavities, and quantum devices, as well as extensions to unconventional superconductors.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5460 Galactic Astrophysics

In these lectures, the focus is on the dynamics and statistical mechanics of a collection of stars, which is treated as a collisionless system. The course begins with a discussion of potential theory and proceeds to discuss the density and phase distributions of stars in star clusters and galaxies, thus leading to an understanding of the equilibria and stability of these systems. Topics such as Chandrasekhar's dynamical friction, galaxy formation and dark matter will constitute the final topics of discussion.

Credit 3 units. A&S IQ: NSM Art: NSM BU: SCI

Typical periods offered: Fall

PHYSICS 5470 Intro to Elementary Particle Physics

An introduction to the standard model of elementary particle physics. The non-Abelian $SU(3) \times SU(2) \times U(1)$ gauge theory and its relation to phenomenology and experiments.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5490 Solid State Physics I

Quantum theory of phonons in solids, thermodynamical properties, band theory of solids, free-electron and tight-binding approaches to electronic structure.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5500 Solid State Physics II

Band magnetism and local moments, Ising models, electron-electron and electron-phonon interactions, superconductivity.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5505 Quantum Hardware

An introduction to hardware used in quantum information processing, including superconducting qubits, trapped ions, neutral atoms, solid state spins, quantum defects for sensing, quantum photonics for communications, topological qubits, etc.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5510 Relativistic Quantum Mechanics

Introduction to Quantum Field Theory using simple 1-dimensional and/or scalar field examples. Canonical quantization and path integrals; Feynman diagrams; Lorentz group; discrete symmetries; LSZ theorem. Introduction to regularization and renormalization.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5520 Relativistic Quantum Field Theory

Continuation of Phys 551. Path integral quantization of spin 1/2 and spin 1 fields. Quantum electrodynamics. Ward identities and renormalization. Computation of the electron anomalous magnetic moment and the Lamb shift. Non-Abelian gauge theories and their quantization. Quantum chromodynamics and asymptotic freedom. Spontaneous symmetry breaking and the Standard Model.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5550 Modern Astrophysics

This course will describe the astronomical objects and physical processes that constitute modern astrophysics. It will begin with white dwarfs, neutron stars, black holes and accretion discs and jets. Next will come the phenomena that these objects produce: novae, pulsars, supernovae, quasars, radio sources, relativistic particles, and cosmic rays. This will be followed with calculations of essential physical processes, including coherent radio emission, synchrotron radiation, pair production and particle acceleration. It will conclude with discussions of open questions: what makes supernovae, the properties of pulsars, the origin of fast radio bursts. The choice of questions will respond to student interests.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5560 Stellar Astrophysics

In the second semester, the focus is on the dynamics and statistical mechanics of a collection of stars which is treated as a collisionless system. The course begins with a discussion of potential theory and proceeds to discuss the density and phase space distributions of stars in star clusters and galaxies, thus leading to an understanding of the equilibria and stability of these systems. Topics such as Chandrasekhar's dynamical friction and dark matter will constitute the final topics of discussion.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5570 Gravitation and Cosmology

Special relativity, equivalence principle, and fundamental experiments. Mathematics of curved spacetime. General structure of Einstein's equations. Observational tests. Applications of general relativity, relativistic stellar structure, gravitational collapse and black holes.

Credit 3 units.

Typical periods offered: Fall



PHYSICS 5580 Relativistic Astrophysics

Applications of general relativity to astrophysics and cosmology. Relativistic stars, gravitational collapse and black holes; generation, propagation and detection of gravitational radiation. Cosmology, the Standard Model; physical processes in the early universe and the microwave background. Inflationary scenario. Origin of galaxies and large-scale structure. Gravitational lenses. Credit 3 units.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5590 Testing Fundamental Physics With Astronomical Observations

Astronomical observations allow us to test fundamental physics laws under more extreme conditions than possible in terrestrial laboratories. In some important cases (i.e. cosmology), astronomical observations present the only way to gather empirical evidence and to formulate and subsequently test the theories. In this one-semester course, we start with a brief summary of the current theoretical framework that is used to explain the cosmos: the theory of General Relativity and the Standard Model of particle physics. Subsequently, we introduce current astronomical observatories and discuss which fundamental physics laws they can probe. We include a detailed discussion of theoretical ideas which are being probed, and avenues for developing more precise tests with future experiments. This class is designed to be highly relevant for theoretical and experimental researchers. Previous exposure to the theory of General Relativity and quantum field theory is beneficial but not required.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5600 X-Ray and Gamma-Ray Astrophysics

This course provides an introduction to the field of X-ray and Gamma-ray Astrophysics in the context of the wider field of High-Energy Astrophysics, which elucidates the information derivable from investigations of cosmic rays, radio waves, x-rays, gamma-rays, and gravitational waves emitted by astronomical sources. Physical processes such as acceleration of particles to highly relativistic energies in astrophysical plasmas, synchrotron radiation, inverse-Compton scattering, bremsstrahlung, Cerenkov emission, dispersion and Faraday rotation of radio waves are discussed in the context of modeling the astrophysical sources. The physics underlying supernovae, supernova remnants, pulsars, powerful radio, x-ray and gamma-ray sources, active galactic nuclei, quasars and the recently discovered gravitational wave sources powered by coalescing binary black holes, and neutron stars constitutes the main body of this course. The subject of dark matter in the galaxies is briefly touched upon. The design of detectors for carrying out the observations is also briefly presented.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5630 Topics in Theoretical Biophysics

What can Deep Learning teach us about the Brain? What can Artificial Intelligence in Neural Networks teach us about the functioning of Natural Intelligence in Brains? What can Computational Neuroscience teach us about the functioning of Artificial Intelligence in Neural Networks? Do the mechanisms of Artificial Intelligence in deep networks serve as a framework for the investigation of Natural Intelligence in evolved brains? Deep Neural Networks (DNNs) have revolutionized Machine Learning and Artificial Intelligence. These networks have recently found their way back into computational neuroscience. DNNs reach human-level performance in certain tasks. Importantly, DNNs can display certain characteristics of brain function that cannot be captured with shallow handcrafted models. With

this, DNNs offer an intriguing novel framework that may enable computational neuroscientists to address fundamental questions concerning complexity and neural computation in brains. In this course we will evaluate the tantalizing hypothesis that DNNs can serve as a tool to understand aspects of brain function, thus moving closer towards an understanding of both, natural and artificial intelligence. The course will be organized around 15 key papers illustrating major ideas of DNNs and computational neuroscience. Background material will be provided.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5680 Astrostatistics

The course will be centered on astrostatistics and explore fundamental concepts in statistics and computer science, using astrophysics as the basis of application. The course will introduce the essential principles and techniques of astrostatistics, equipping students with the necessary tools to analyze and interpret data from various astrophysical phenomena, while the methods covered will also apply to problems outside of astronomy.

Credit 3 units.

Typical periods offered: Fall, Spring, Summer

PHYSICS 5810 Critical Analysis of Scientific Data

Data science is most commonly associated with topics in computer science. But efficient algorithms, specific software packages, neural nets, etc., are only tools, and are easily misused. In a research setting, working with data is primarily an exercise in critical thinking. The purpose of this interactive, hands-on course is to learn from mistakes by making them in a safe environment. After covering/reviewing probability theory; Bayesian inference; elements of information theory and random matrix theory, the course will focus on case studies of real-world biological data, such as quantitative imaging data, next generation sequencing (metagenomics), and neural recordings. These modules will involve critical reading of research papers and working through puzzle-based assignments. The primary modules will be supplemented by shorter presentations on topics chosen by students. Fair warning: this is explicitly NOT a course on big data or machine learning, although students may choose to explore some of these topics in their presentations (required for credit). Experience with MatLab or Python strongly encouraged or will need to be acquired during the course.

Credit 3 units.

Typical periods offered: Fall, Spring

PHYSICS 5820 Research Seminar

Designed to introduce students to current developments in physics and to research carried out by faculty. Topics vary each year. Each member of the department addresses issues in their particular specialty. Required of all first-year graduate students.

Credit 1 unit.

Typical periods offered: Fall

PHYSICS 5840 Computational Methods

This course provides an introduction to the computational techniques that are most widely used in both theoretical and experimental research in physics. Each lecture will use a realistic research problem to introduce the algorithms, software packages and numerical techniques that will be used by the students to develop a solution on the computer. Topics include Monte Carlo techniques, symbolic analysis with Mathematica, data acquisition software used in the laboratory, the numerical solution of quantum mechanical problems, and an introduction to general purpose frameworks based on Python.

Credit 1 unit.

Typical periods offered: Spring

PHYSICS 5890 Selected Topics in Physics I

From time to time, additional courses are offered in specialized physics topics of current interest, such as group theory, general relativity, advanced hydrodynamics, boundary-value problems, celestial mechanics, astrophysics, and so on.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5900 Selected Topics in Physics II

From time to time, additional courses are offered in specialized topics of current interest such as group theory, general relativity, advanced hydrodynamics, boundary-value problems, celestial mechanics, astrophysics, etc.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5930 Introduction to Methods in Physics

Five hours per week of tutorial training in modern experimental and/or theoretical methods in physics. Instruction by faculty members or, with faculty supervision and assistance by graduate teaching interns.

Credit 3 units.

Typical periods offered: Fall

PHYSICS 5940 Introduction to Methods in Physics

Five hours per week of tutorial training in modern experimental and/or theoretical methods in physics. Instruction by faculty members or, with faculty supervision and assistance, by graduate teaching interns who are enrolled in and earning credit for Phys 597-598. A maximum of 3 units of this course may be counted toward the requirement of 36 units of course credit for the Ph.D. degree.

Credit 3 units.

Typical periods offered: Spring

PHYSICS 5970 Supervised Teaching of Physics

Teaching is an integral part of your career development as a physicist. Whether you pursue a career in academia, become a researcher, or work in industry, you will need to teach others. This discussion-based course is designed to engage first-year graduate students in discussions about the science teaching and learning, with a major emphasis on insights and experimental evidence from cognitive psychology and education research.

Credit 1 unit.

Typical periods offered: Fall

PHYSICS 5980 Supervised Teaching of Physics

Supervised instructional experience as a graduate teaching intern. Under faculty supervision, a teaching intern may earn credit in Phys 597-598 by (a) instructing graduate students who are taking Phys 593-594, or (b) instructing undergraduates who are taking Phys 241-242 or 341-342 or 441-442, or (c) as a Graduate Teaching Fellow or Assistant, instructing and evaluating work of undergraduate or graduate students in classroom and laboratory physics courses, or (d) instructional activity connected with journal club, group seminars, special short courses, observatory lectures, etc. Five or more contact hours per week with student(s) being instructed, plus associated preparation and evaluation.

Credit 1 unit.

Typical periods offered: Fall, Spring

Physics, Accelerated BA/ MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
 - Students are required to obtain 36 credits including four core courses (12 credits) and eight elective courses (24 credits).
 - Courses that count toward academic credit are as follows:
 - Any regular 5000-level lecture courses in the physics department, including PHYSICS 5820 Research Seminar
 - Courses outside of the physics department, if approved by the master's program director
- **Degree Length:** One academic year
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A master's student must maintain an average of a B (a grade point average of 3.0), with no more than one grade lower than B—.

The Office of Graduate Studies, Arts & Sciences, offers an accelerated BA/MA program that allows Washington University students completing a BA degree in Arts & Sciences to earn both the BA and MA degrees with one additional academic year of study (typically five years total). Students admitted to the accelerated program must begin graduate study in the academic year immediately following completion of the BA degree; deferred admission is not permitted. Applications are due by March 15 prior to the fall semester in which the student will begin the MA program. The program allows participants to count up to 15 units of approved 4000-/5000-level coursework earned during their undergraduate studies toward the MA degree requirements, provided the courses were completed with grades of B or better. Careful

course selection throughout the undergraduate program is required; students interested in the program are encouraged to consult with the department early regarding eligibility and the applicability of prospective courses to the MA degree requirements.

Core Course Requirements

Students must take the following three courses:

Code	Title	Units
PHYSICS 5050	Classical Electrodynamics I	3
PHYSICS 5230	Quantum Mechanics I	3
PHYSICS 5290	Statistical Mechanics	3

They must also take at least one of the following.

Code	Title	Units
PHYSICS 5010	Theoretical Physics	3
PHYSICS 5020	Methods of Theoretical Physics II	3
PHYSICS 5060	Classical Electrodynamics II	3
PHYSICS 5070	Classical Mechanics	3
PHYSICS 5090	Nonlinear Dynamics	3
PHYSICS 5240	Quantum Mechanics II	3

Physics, MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
 - Students are required to obtain 36 credits including four core courses (12 credits) and eight elective courses (24 credits).
- **Degree Length:** Two years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** A master's student must maintain an average of a B (a grade point average of 3.0), with no more than one grade lower than B–.

Core Course Requirements

For qualification, students must pass four core 5000-level physics courses. The core courses must be passed with a minimum average grade of B–. Core courses may be taken only once. If more than four core courses are taken, the GPA will be determined from the best four course grades.

Students must take the following three courses:

Code	Title	Units
PHYSICS 5505	Quantum Hardware	3
PHYSICS 5230	Quantum Mechanics I	3
PHYSICS 5290	Statistical Mechanics	3
Total Units		9

They must also take at least one of the following:

Code	Title	Units
PHYSICS 5010	Theoretical Physics	3
PHYSICS 5020	Methods of Theoretical Physics II	3
PHYSICS 5060	Classical Electrodynamics II	3
PHYSICS 5070	Classical Mechanics	3
PHYSICS 5090	Nonlinear Dynamics	3
PHYSICS 5240	Quantum Mechanics II	3

36-Unit Academic Credit Course Requirement

Courses that count toward academic credit are as follows:

- Any regular 5000-level lecture courses in the physics department, including PHYSICS 5820 Research Seminar.
- Courses outside of the physics department, if approved by the master's program director
- Selected Topics courses, for which students should register: PHYSICS 5890 Selected Topics in Physics I/PHYSICS 5900 Selected Topics in Physics II
- Supervised research, for which students should register: PHYSICS 5930 Introduction to Methods in Physics/PHYSICS 5940 Introduction to Methods in Physics (Supervised research may be used for a maximum of 6 units of academic credit.)

Master's Degree Along the Way to a PhD

- Complete 36 units of academic credit as required to earn a PhD and maintain an average grade of at least a B (3.0 GPA).
- Pass the PhD qualification procedure.

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Physics, PhD

Contact: Sarah Akin
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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students in the PhD program must maintain an average grade of at least a B (3.0 GPA).

PhD Qualification: Course Requirements

Students must pass six core 5000-level Physics course. In those courses, the student must maintain an average of a B (3.0 GPA), with no more than one grade lower than B-. A given core course may be taken only once. If more than six core courses are taken, the GPA will be determined from the best six course grades.

Students must take the following four courses:

Code	Title	Units
PHYSICS 5010	Theoretical Physics	3
PHYSICS 5050	Classical Electrodynamics I	3
PHYSICS 5230	Quantum Mechanics I	3
PHYSICS 5290	Statistical Mechanics	3
Total Units		12

They must also take at least two of the following:

Code	Title	Units
PHYSICS 5020	Methods of Theoretical Physics II	3
PHYSICS 5060	Classical Electrodynamics II	3
PHYSICS 5070	Classical Mechanics	3
or PHYSICS 5090	Nonlinear Dynamics	
PHYSICS 5240	Quantum Mechanics II	3

These requirements can be modified for students who have completed equivalent courses while working toward a master's degree in physics at other universities.

36-Unit Academic Credit Course Requirement

Courses that count toward academic credit are as follows:

- Any regular 5000-level lecture courses in the physics department, including PHYSICS 5970 Supervised Teaching of Physics and PHYSICS 5820 Research Seminar
- Special topics courses, for which students should register: PHYSICS 5890 Selected Topics in Physics I/PHYSICS 5900 Selected Topics in Physics II
- Supervised research, for which students should register: PHYSICS 5930 Introduction to Methods in Physics/PHYSICS 5940 Introduction to Methods in Physics (Supervised research may be used for a maximum of 6 units of academic credit.)
- Courses outside of the Physics department, if approved by the student's advisor and the director of graduate studies

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.



PhD Qualification: Oral Examination Requirement

To qualify, the student must give a presentation to a committee of three physics faculty members (i.e., the prospective research advisor and two others). The student should demonstrate a basic understanding of a major topic of current research in the selected area of study, chosen in consultation with the student's prospective thesis advisor. One week before the oral exam, the student must prepare a written paper (approximately 1500-3000 words) summarizing the content of the presentation and give it to the committee. The student's responses to questions raised by the examination committee are graded as adequate or not. Students have a chance to respond to inadequately answered questions in writing within 48 hours after the examination. The student is not allowed to receive assistance in preparing the written response from any other individuals. The answers should either be given in person to the chair of the examination committee or emailed to the chair as a PDF file so that it is time stamped. The committee will determine whether the written answers are sufficient.

The committee must be chosen and approved by the department chair by the beginning of a student's third semester. The oral examination should be taken by the beginning of a student's fourth semester. If the student fails the oral examination, they can take it again one additional time.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Students must complete the qualifying examination by the beginning of their fourth semester and all remaining pre-candidacy requirements by the end of their fourth semester. Students are expected to advance to doctoral candidacy by the beginning of their fifth semester in the program.

Outline of Requirements

- Complete 36 units of academic credit (detailed below), maintaining an average grade of at least a B (3.0 GPA).
- Pass the PhD qualification procedure. This requirement must be completed before a student can formally join a research group and is normally completed before the start of the third year.
- Complete the teaching requirements.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

Teaching Requirements

These requirements must be completed before the student submits their doctoral dissertation to the Office of Graduate Studies, Arts & Sciences:

- Complete PHYSICS 5970 Supervised Teaching of Physics: Graduate students are required to take PHYSICS 5970 Supervised Teaching of Physics. Students typically take this course during their first fall semester.
- Complete a Mentored Teaching Experience.
- Complete four hours of oral presentations: Graduate students must complete a total of four hours of specialized oral presentations. Examples of such presentations include teaching a class (e.g., when substituting for a professor); giving seminars, such as the weekly graduate seminar; or giving oral presentations at conferences, journal clubs, and the like.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way

- Complete 36 units of academic credit, maintaining an average grade of at least a B (3.0 GPA).
- Pass the PhD qualification procedure.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

The MER for the PhD in Physics consists of a Mentored Teaching Experiences (MTEs) as an Assistant in Instruction (AI). This requirement aligns with the goal of developing clear communication skills, both orally and in writing, which are essential for all physicists. We consider teaching preparation a vital component of learning effective communication. This encompasses various forms of teaching, including lecturing, individual instruction, leading and participating in discussions, and advocacy. Whether pursuing a postdoctoral fellowship, a teaching position, or a research role in industry or at a national laboratory, new PhD graduates will find that diverse teaching experiences are crucial for their success.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Two preparatory activities are required:

1. Center for Teaching and Learning (CTL) Graduate Student Mentored Teaching Orientation: Students are required to attend the graduate student mentored teaching workshops offered by the CTL during orientation week. This orientation will familiarize students with their instructional roles as an AIs and with essential policies relating to teaching at WashU. This includes, in particular, instruction on Title IX policies, emergency preparedness, and what assistants in instruction can do to maintain a fair, safe, and inclusive environment for teaching and learning.
2. Departmental Introduction to Teaching: A department led introduction to teaching will likewise be held during orientation week and further emphasize more discipline-centered topics such as different learning styles of physics students and/or AI responsibilities within the physics department.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

After completion of the Preparatory Engagement activities, graduate students engage in AI for 20 total MER units. There are a variety of classes available, and every effort is made to match graduate student interests and abilities to their AI assignment.

AI tasks associated class will be worth 5, 10, or 15 MER units, dependent upon their assignment and required tasks. AIs for 10 MER units are typical, but some classes will have multiple AIs assigned for 5 MER units. Introductory labs (two sections per week) offer the most contact time (15 MER units). Advanced labs and leadership in the introductory labs require outstanding skills and a substantial commitment to physics teaching.

In addition to grading and discussing homework solutions with the lecturer, the AIs involve the following tasks:

- Maintaining office hours
- Leading help sessions
- Preparing homework assignments and solution sets

Moreover, during an AI, students are also encouraged to present a lecture in the class with which they are connected.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students typically engage in AIs during their second and third semesters.

Pathway #1

ASGS 8005	Take one time
ASGS 8015	Take one time

Pathway #2

ASGS 8010

Take two times

Political Science

The doctoral program in political science at Washington University is one of the top political science programs in the country. Graduate students take classes and engage in research with a faculty recognized nationally and internationally as among the most expert, active, and productive in the country.

Our graduate program is relatively small. We admit excellent students into the PhD program each year, with approximately 50 graduate students currently in residence.

Washington University's **PhD program in Political Science** is designed to prepare students for academic careers in research and teaching at major institutions across the country. We stress the importance of political methodology (applied statistics) and formal theory (game theory and mathematical modeling), and our program is designed to teach all students in these methods, regardless of their mathematical background.

We have active research groups in American politics, comparative politics, international relations, positive and normative theory, and political methodology. It is important to emphasize that we do not regard these subfields as separate entities. Many of our faculty have research and teaching interests that transcend political science subfields as well as traditional disciplinary boundaries. We have strong connections with other departments in Arts & Sciences at Washington University (including the departments of Economics and Anthropology), with the School of Law, and with various interdisciplinary research centers on campus.

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Faculty

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JD, Temple University

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PhD, Stanford University

Itai Sened

Professor Emeritus
PhD, University of Rochester

Steven S. Smith

Professor Emeritus
PhD, University of Minnesota

Andrew Sobel

Professor Emeritus
PhD, University of Michigan

Degree Requirements

- Political Science, PhD (p. 409)

Courses

POLSCI 5000 Topics in Politics

The topics for this course will vary each semester.
Credit 3 units.
Typical periods offered: Fall

POLSCI 5005 Topics in Politics

Credit 3 units.
Typical periods offered: Fall

POLSCI 5006 Independent Work

This course is an independent study taken under the supervision of an instructor in the department.
Credit 3 units.
Typical periods offered: Fall, Spring

POLSCI 5009 Topics in Politics

Credit 3 units.
Typical periods offered: Spring

POLSCI 5020 Voting, Elections, and the American Electoral Process

In this course we will critically examine the extensive literature on voting and elections in the United States. The course will approach the subject from both a contemporary and historical perspective while emphasizing the importance of American electoral institutions in shaping the behavior of voters, candidates, parties, and the outcomes of elections. Readings and assignments will focus on topics such as: campaign dynamics, electoral institutions, voter turnout, representation, presidential and congressional elections, polling, political behavior, and party identification.
Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5026 Political Economy Workshop

This course provides students with exposure to recent work in the field of political economy (e.g., game-theoretical models of political phenomena, structural estimation of political phenomena, etc.), with a focus on the work of members of the Wash U political economy community (e.g., political science, economics, law, business). Importantly, graduate students will present their work in progress and provide regular feedback on the work of others.
Credit 1 unit.

Typical periods offered: Fall, Spring

POLSCI 5035 Political Data Science Lab

The Political Data Science Lab (PDSL) is a venue to foster and improve social science research. Nowadays, researchers and policy-makers use cutting-edge methods to answer important questions. However, the validity of their conclusions depends upon underlying theory, assumptions, design, and correct application of statistical methods. This course will provide students with the foundation necessary to conduct research by immersing the students in a vibrant and intellectually demanding environment. Thus, PDSL's workshops are a course designed to improve the research projects (at any stage) of our members. We strongly believe that persistent efforts will lead to successful outcomes such as many publications and successful dissertations from the members of PDSL.
Credit 1 unit.

Typical periods offered: Fall, Spring

POLSCI 5040 International Political Economy

It focuses on the key issues in international political economy, such as trade, monetary policy, foreign investment, migration, globalization, development, foreign aid, national security, and international institutions and cooperation.
Credit 3 units.

Typical periods offered: Fall

POLSCI 5044 Political Theory Workshop

This course provides a forum for graduate students' development as professional researchers. It achieves this goal in two ways. First, the course provides a setting for students to share research-in-progress and to provide and receive feedback on that research. This both contributes to the development of viable, publishable research projects and affords important experience presenting research. Second, the course facilitates the development of professional skills, such as critical reading and feedback, conference etiquette and norms, job market preparation, and exposure to both politics and political science beyond Washington University. Regular enrollment and attendance is expected and encouraged for all political theory graduate students, and open to graduate students in any field outside the department with an interest in political or social theory.
Credit 1 unit.

Typical periods offered: Fall, Spring

POLSCI 5046 Forced Displacement and the Politics of Seeking Refuge

In the last decade, the number of people who are forcibly displaced has more than doubled, and today the United Nations High Commissioner for Refugees estimates that 108.4 million people are forcibly displaced. Among this group, people face distinct legal, social, economic, and political challenges according to their status as refugees, asylum seekers, internally displaced persons, and others who do not fit these categories. In this course, we will examine the political conditions that forcibly displace people across and within countries including persecution, conflict, and environmental disasters exacerbated by climate change as well as their experiences of seeking refuge. How do international, state, local, and non-governmental institutions cooperate to manage the needs of forcibly displaced persons? In what ways do political pressures create opportunities for and barriers to effective policies to address refugee issues? How do these structural challenges affect forcibly displaced persons, and what strategies do advocates use to improve the human rights of these populations? Throughout the course, we will bear in mind the interconnectedness of macro-level policy-making and micro-level issues that affect the daily lives of individual humans experiencing forced displacement.

Credit 3 units. A&S IQ: SSC, SC Art: SSC EN: S

POLSCI 5053 State Politics

The course covers major works in the area of US State Politics. Each week covers a different motivation for why people study state politics, including institutional reasons, theoretical reasons, and data-driven reasons. Students are also expected to develop their own research plans.

Credit 3 units.

POLSCI 5054 Political Borders, Domestic Politics and Patterns of Conflict and Cooperation

Borders are ubiquitous in politics and economics. International borders are what make relations among states international, while sub-state administrative borders are increasingly recognized as central to understanding many aspects of domestic politics. For instance, the status and key characteristics of borders are known to have significant effect on the likelihood and character of militarized conflict among states, the volume of international trade and foreign direct investment, and the propensity for civil conflicts to become transnational. Furthermore, informal political borders, such as states' internal ethnic divisions, have also been found to profoundly influence economic patterns, patterns of political competition, as well as the propensity for states to experience political violence and civil conflict. Despite the ubiquity of borders and their widely recognized importance to politics, there has traditionally been little research directly addressing how and why they shape individual level behavior. Recently, this has changed, as scholars across several literatures in the subfields of international relations, comparative politics and political economy have begun to put greater theoretical and empirical focus on borders and their role in organizing the political and economic behavior of individuals and governments. This course provides a survey of the role of borders in political and economics, drawing from a diverse set of contemporary literatures in political science and economics.

Credit 3 units.

POLSCI 5057 Interest Groups & Social Movements

The formation, evolution and political influence of organized interests and social movements in the US.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5063 Causal Inference

The course serves as both an introduction for the mechanisms by which political scientists draw causal inferences using quantitative data as well as an introduction for the basic statistical tools necessary for quantitative research in the social sciences. There are three main goals of this course: to teach students to read, understand and criticize quantitative analysis in published and unpublished work, to provide them with the skills necessary to begin conducting their own analyses, and to lay the foundations for quantitative methods. We will cover the fundamentals of how political scientists are able to draw causal inferences. To do so, we will review basic probability and statistics. We will then discuss the types of inferences possible with different data-generating processes, including laboratory experiments, randomized field experiments, and observational data. There are no prerequisites for this class beyond approaching the material with an open and curious mind. Much of the material in this course is technical and a successful student in this course will spend a significant amount of time outside of class working through problem sets and becoming familiar with the necessary statistical software.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5064 Formal Models of Conflict

This course is intended for advanced graduate students who are interested in the formal models of conflict. This course may be of particular interest to students interested in international relations. The goal of this course is to provide hands-on experience for students with interest in modeling various substantive ideas by exposing the advantages and limitations of mathematical formalization. To accomplish this, students will (i) deeply engage with selected readings, (ii) identify the contributions of their authors, and (iii) find ways to improve the research or extend the insights.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5070 Global Justice

This course examines contemporary debates and controversies regarding global justice. Seminar discussions will be arranged around significant issues in the current literature. For example: What (if anything) do we owe to the distant needy? Do we have special obligations to our compatriots? Do political borders have normative significance? And so on. This course will be of interest not only to political theorists, but also students in other fields interested in social justice or international relations generally.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC EN: S

POLSCI 5074 Comparative Politics Research Workshop

This course provides a forum for graduate students' development as professional researchers. It achieves this goal in three ways. First, students will present research in progress, receiving feedback on papers they are preparing for publication. This helps improve the quality of their work, and gives them experience presenting and receiving constructive criticism on their research. Second, students will also provide feedback on other students' work, helping them practice skills such as critical reading, crafting constructive feedback, and gaining exposure to different substantive topics and research methods in the subfield of comparative politics. Third, the course will help students build networks of collaboration in the department with other graduate students, faculty, and external scholars who may occasionally participate in some sessions, presenting their own in-progress work. Regular enrollment and attendance is expected for comparative politics graduate students and encouraged for other graduate students (including from other departments) with a significant interest in comparative politics.

Credit 1 unit.

Typical periods offered: Fall

POLSCI 5075 International Relations Workshop

This course provides graduate students with key professional development skills on their path to becoming professional researchers and academics. The course accomplishes this goal in three ways. First, students will present research in progress week to week, receiving feedback on papers they are submitting for publication. This helps improve the quality of their work and gives them experience presenting and receiving constructive criticism on their work. Second, students will also provide feedback on other students' work, helping them practice skills such as critical reading, crafting constructive feedback, and gaining exposure to different substantive topics and research methods in the subfield of international relations. Third, the course will help students build networks of collaboration in the department with other graduate students, WUSTL faculty, and external faculty who will also participate in some sessions, presenting their own in-progress work for students. Regular enrollment and attendance is expected for all international relations graduate students in the department and is open to those outside the department who have significant interests in international relations.

Credit 1 unit.

Typical periods offered: Fall, Spring

POLSCI 5080 Theories of Individual and Collective Choice I

An introduction to Rational Choices Theory. Topics will include the following: the foundations of Rational Choice Theory, Spatial Theory of Electoral Competition, Cooperative Game Theory, and General Equilibrium Theory. Prerequisite: PolSci 5052, Mathematical Modeling in Political Science (or equivalent).

Credit 3 units.

Typical periods offered: Fall

POLSCI 5094 Mathematical Modeling in Political Science

This course is designed to provide mathematical tools useful for the rest of the statistical methods sequence, as well as for other courses in formal theory or mathematical modeling. Throughout the course, the mathematical tools are motivated by applications to the general problem of how politics can be modeled for purposes of statistical analysis, deductive reasoning, or conceptual theorizing. This motivation is accomplished by means of a consistent focus on such processes as individual decision making, the representation of issues, statistical phenomena, and phenomena of change over time. The course assumes a sufficient background in elementary algebra, logic, functions, and graphs; remedial work in these areas will be offered through a review course during the last week or two of summer. Mathematical topics covered include: sets and relations; probability; differential calculus and optimization; difference equations; and linear algebra.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5101 Fascism and the Far Right in Europe

Across Europe and beyond, parties on the far right have become a substantial force in contemporary politics. Some analysts have raised questions about these parties' ties to fascism, as characterized regimes such as Mussolini's Italy, Franco's Spain, and Hitler's Germany. How do today's far right actors compare to those of the past, and what can we learn from the comparison of the present moment to history? In this class, we will study both the extreme and radical right in Europe over time through the lens of three cases: Italy, Spain, and Germany. We will analyze both the conditions for popular support (demand) and political opportunity structures (supply) that allow(ed) far right actors to gain and maintain authority. We will also assess the strategies of these actors through themes of race and migration, security and foreign policy, gender, and religion. As we develop this discussion, you will conduct further research into a single topic that interests

you, in the course cases or another case of your choice. Since an essential element of far right politics is the rejection of either the liberal elements of democracy (e.g. minority rights) or the principles of democracy entirely (including the electoral process), you will present your research through a creative medium aimed at a public audience, with the goal of promoting civic engagement.

Credit 3 units. A&S IQ: SSC EN: S

POLSCI 5103 Theories of Individual and Collective Choice II

This course provides an introduction to noncooperative game theory and its application within political science. In-depth coverage of the course will include normal- and extensive- form games, Nash equilibrium and its refinements, games of incomplete information, and Bayesian equilibrium and its refinements. To the degree that time permits, students will be presented introductory material on topics such as epistemological foundations, mechanism design, information aggregation, and specific applied models within political science.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5105 Seminar in Positive Political Theory

This course will provide you with an introduction to the field of positive political theory, focusing primarily on social choice theory, mechanism design, and various proof techniques. The topics we cover will include preference aggregation, rationalizable choice, tournaments, sophisticated voting, the revelation principle, and ultimately, the implicit trade-offs made by game theoretic versus social choice theoretic approaches to modeling.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5109 Frontiers in Formal Theory and Comparative Politics

This course explores frontiers in comparative politics and political economy through formal modeling. Its aim is to equip PhD students to contribute to active literatures using contemporary theoretical tools. Readings combine "pure" theory papers that have been fruitfully adapted into substantive political science research with comparative politics work that successfully incorporates formal-theoretic methods. This is not intended to be either a comparative politics survey or general-purpose course in formal theory. Our goal is instead to examine how selected cutting-edge formal tools can illuminate questions at the core of comparative politics, especially in settings where institutions are weak, politics is contested, and collective action is fragile. The course is organized around theoretical frameworks rather than substantive topics or regions. Each section pairs a "pure" theoretical paper (usually from economics) with an application in political science. The theory papers are demanding, but they represent the frontier of the modeling toolkit; the applied pieces demonstrate how these tools can be used to generate insights about autocracy, protest, representation, and democratic backsliding. Students are not expected to master every proof, but they are expected to engage the frameworks critically and think about how they might adapt them in their own work.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5110 Seminar in Political Theory: Game Theory and Politics

This seminar is designed as an eclectic topics course in the application of broadly game theoretic models to political science. Topics are chosen both to build skills not covered in Game Theory I and II (505-506) and to introduce areas of application of mutual interest. One likely applications topic is constitutional stability and democratic backsliding. Prerequisites: L32 505

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5120 Research Seminar in Formal Political Theory

Seminar will discuss and develop individual students' formal theory projects plus necessary background material. Precise content based on student projects.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5125 International Interventions in Fragile Settings

Civil wars are the prevailing political crises of our time. The international community devotes considerable financial and human resources to preventing civil wars from breaking out and stopping them once they do. Do such attempts succeed? In this course, we examine international efforts to create sustainable peace after civil wars from a variety of perspectives. Drawing upon theoretical and empirical analyses in political science, we investigate the effectiveness of peacekeeping troops deployed to keep warring parties from fighting as well as statebuilding initiatives that attempt to construct or reconstruct domestic institutions in a postconflict state. We also consider the spatial challenges facing peacekeeping operations, which may prevent certain operations from succeeding locally where they have succeeded nationally. Finally, we examine different types of peacekeepers, including the United Nations's extensive network of peacekeeping operations around the globe.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5130 History of Political Thought I: Justice, Virtue, and the Soul

This course offers a critical introduction to the main issues and debates in western political theory, including but not limited to the topics of justice, legitimacy, equality, democracy, liberty, sovereignty, and the role of history in the political and social world. This course is designed to be the first in a three-semester sequence on the history of political thought, and students are encouraged, but not required, to take the courses in chronological sequence. The first semester begins with ancient Greek political thought, and follows its development up to the early 16th century.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA EN: S UColl: ML

POLSCI 5133 History of Political Thought II: Legitimacy, Equality and the Social Contract

Government is often justified as legitimate on the grounds that it is based on the consent of the governed. In History of Political Thought II, Legitimacy, Equality, and the Social Contract, we examine the origins of this view, focusing our attention on canonical works in the social contract tradition, by Thomas Hobbes (1588-1679), John Locke (1632-1704), Jean-Jacques Rousseau (1712-1778), David Hume (1711-1776), and Immanuel Kant (1724-1804). This course is the second in a three-semester sequence on the history of political thought. Students are encouraged but not required to take all three courses. Prerequisite: One previous course in political theory or political philosophy.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA EN: S

POLSCI 5134 History of Political Thought III: Liberty, Democracy, and Revolution

How, if at all, should the political institutions of the modern state express and secure the liberty and equality of citizens? What is the political significance of private property? Is world history to be understood as progress towards one best form of government - capitalist democracy, perhaps, or communism? What forces drive history? We shall address these and other timeless political questions through close reading and rigorous analysis of classic texts

in the history of Western political thought. Authors to be studied will include Kant, Hegel, Marx, Tocqueville, John Stuart Mill, and Nietzsche. Prerequisite: one previous course in political theory or political philosophy. The course is designed to be the third in a three-semester sequence on the history of political thought, and students are encouraged but not required to take the courses in chronological sequence.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA EN: S

POLSCI 5140 Approaches to Comparative Politics

Problems of theory construction and testing in a comparative framework. Both underdeveloped and industrial societies are discussed. Primary emphasis placed on increasing student's abilities to criticize and develop theoretical ideas.

Credit 2 units.

Typical periods offered: Fall

POLSCI 5145 The Distributive Politics

Around the world, governments make decisions about how to allocate goods and services to their citizens. These decisions can be influenced by the electoral prospects of the politician/party in power. In this class, we aim to study politicians' incentives to target voters and how different electoral rules shape these incentives.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5151 China's Environmental and Climate Governance

This graduate seminar offers a comprehensive examination of China's environmental and climate governance, with particular emphasis on developments since the early 2000s. As the world's most populous country and a leading global emitter, China's trajectory in environmental and climate policy has profound implications both domestically and internationally. While rapid industrialization and urbanization have intensified environmental degradation, China has simultaneously emerged as a key actor in global climate negotiations and sustainable development efforts. This course samples both classic foundational texts and cutting-edge, data-driven research to understand the evolving dynamics of environmental and climate governance in China. Special attention will be paid to issues of implementation, state capacity, policy experimentation, selective enforcement, and principal-agent dynamics within authoritarian governance structures.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5161 Senior Seminar: Religion, Politics, and Community

Religion is a powerful social, economic, and political force across the globe. Its formal authorities and informal influences have changed over time and across space and traditions. Yet even where regular religious practice has become less common, religion remains a means of constructing communities, be it a diaspora, a unique nation within a state, or state-wide national identity or nationalism. Religion intersects with race, gender, and other important social identities, and it overlaps with organized political power from the grassroots to the government. Human relationships with the divine have influenced everyday norms and values, have marked key moments in our life cycle, and have provided material and social psychological resources for communities. In this course, we will examine the political relationships between religion and community from a variety of social scientific perspectives. As a core part of this inquiry, you will conduct an original research paper on a topic of your choice relating to religion, politics, and community. We will work through each step of the scientific method

over the course of the semester-using religion and community as a lens and set of thematic examples-and hold guided workshops to facilitate your research process. Prereq: L32 263 OR L32 363 OR department approved equivalent
Credit 3 units. A&S IQ: SSC EN: S

POLSCI 5165 Political Participation: State and Local Politics

This course investigates variation in political behavior in the context of state and local politics. We often conceptualize local political participation as engagement within a managerial democracy, wherein partisanship plays a smaller role than local needs and efficient management of resources. Who participates in a managerial democracy and why? This course evaluates participation in local politics, political reform, and engagement with local elected officials. This is a course that focuses on writing, with the aim of producing research at the frontier of the field.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5167 Gender, Sex, and Political Theory

This course offers graduate students an overview of topics in feminist political theory. The primary goals of the class are two-fold: first, to introduce students to the history of feminist political thought from the 19th century onwards, and second, to canvas contemporary debates. The course is divided into three sections. In Part I, we will investigate canonical texts from the development of feminist political thought from the 19th into the 20th century. In Part II, we will read works by contemporary feminist theorists that interrogate enduring concepts and themes within political theory – including the social contract, the state, freedom, autonomy, equality, and power. Finally, in Part III we will turn to cutting edge debates within contemporary feminist political theory.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5190 Seminar in Comparative Politics:

In this course we will survey the voluminous literature on democratization and issues that facilitate or hamper the democratization process. We will begin with a discussion of definitions and examples of democracy. We will then examine in more detail theories about transitions to democracy (complete and incomplete) and consider illustrative examples. Finally, we will study the role of economic and institutional political development in the democratization process, and we will consider the extent to which social and political conflict are inevitable in transitions to democracy.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5195 Seminar in Comparative Politics: European Politics

This course is designed to provide Ph.D. students with a theoretical and substantive background in the study of Europe by political scientist. The course is organized around central research questions that pertain to politics in Europe, many of which are also relevant for the study of advanced industrial democracies. The course is NOT a descriptive survey of current political events and circumstances in particular nations of Europe. However, the readings will provide substantive context to the guiding theoretical and conceptual issues.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5205 Seminar in Comparative Politics: Comparative Judicial Politics

The performance of liberal democracies depends on large part on the judiciary, particularly Constitutional Courts. Courts can protect individual rights, define the powers of the legislative executive branches, and ensure the rule of law governs social and economic life. But courts typically enjoy neither the purse nor the sword and this often depend on other government agencies to enforce their decisions. In other words, the judicial independence necessary for courts to exert the salutary effects on democratic governance is often in question. This course examines these issues from a comparative perspective. In addition to the broad scholarly attention to these issues in the context of U.S. politics, a growing literature explores the interplay between courts, government, and society as a more general problem affecting democracies around the world. Based on this broad literature, we will discuss topics ranging from judicial legitimacy and compliance, judicial policy-making, the interaction between constitutional law and politics, separation of powers, and judicial norms and rules.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5210 American Political Institutions

This course provides an overview of the scholarly work on American political institutions. Readings include the classic literature on political behavior, interest groups, Congress, the Executive, and the Court.

Credit 2 units.

Typical periods offered: Fall

POLSCI 5220 Seminar in American Politics

The seminar provides an overview of the major theories and empirical studies of legislative institutions and behavior. The seminar focuses on the U.S. Congress. Much of the theory and methods have carried over to the study of other parliaments, but the literature on other parliaments is reserved for other seminars.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5230 Topics in American Politics:

This seminar has two central goals: (1) to introduce students to the scholarly literature regarding judicial politics, especially regarding the U.S. Supreme Court, and in so doing discuss some of the most important scholarly debates in the field; and (2) to emphasize the importance of sound theoretical arguments, careful research designs, and compelling empirical results. This course is taught from a perspective that emphasizes the study of courts is closely connected to the theoretical and empirical traditions in American Politics. As such, we will focus on the social scientific study of judicial process and politics, analyzing the substantive, theoretical, and methodological developments in the field. We will concentrate primarily on contemporary readings but will read enough older literature to be cognizant of the field's development.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5236 Seminar in American Politics

This course will address American politics, using race as the focal point. How does race impact our conception of the American political project, as both researchers of it, and participants in it? For example, how does the presence of large numbers of African Americans in the South, affect the structure of southern political parties? Among the topics to be discussed are citizenship, public policy, political behavior, political development, and public opinion. Prerequisites: graduate students only.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5255 Executive Branch Politics: Bureaucracy and the President

Article II of the Constitution says that the executive power will be vested in the office of the president. The Constitution says little about subordinate officers, but the bureaucracy has grown and become the repository of technical expertise. In recent years, the literature on bureaucracy and the president has been granted in models of information asymmetry, agency, delegation, and separation of powers. The course will also examine the historical development of the executive, its relations with other branches, and the internal politics of staffing, budgets, and organizational structure. Prerequisites: Math Modeling

Credit 3 units.

Typical periods offered: Spring

POLSCI 5265 Comparative Party Politics

In this seminar we will review some of the concepts and theories employed in the comparative study of political parties and party systems. Most of the canonical literature has been developed with an eye to the political experience of advanced industrial democracies, but has been extended more recently into the study of inchoate democracies, where the programmatic character of political parties cannot necessarily be taken for granted. We will focus on the constitutional and societal determinants, and on the political and economic consequences, of different party system arrangements, centering mostly on European and Latin American politics.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5280 American Constitutional Development

The development of American understandings of the Constitution, from the Framing era to the present. The course focuses on important changes in constitutional meaning and application; the processes by which such change occurs; and the role of constitutional issues in American political argument and political strategy. In doing so, it develops ideas about constitutional interpretation, constitutional theory, and political argument. This course is intended primarily to supplement the training of graduate students specializing in associated fields such as judicial politics and American political institutions.

Credit 3 units.

POLSCI 5305 Topics in Politics: Theories of Social Justice

This course is intended primarily for sophomores and juniors. The topic of this course varies by semester, dependent on faculty and student interests.

Credit 3 units. A&S IQ: HUM, SC Art: SSC BU: ETH, HUM EN: H, S

POLSCI 5310 Law and Society

This seminar is designed as a survey of important topics within the broad area of Law and Society. Areas to be examined in the seminar include courts and public policy making; civil liberties and political tolerance; criminal justice; the legal profession; juries; legitimacy and compliance with law; law and social change; procedural justice; and comparative law. The seminar will focus on understanding, synthesizing and evaluation the broad range of empirical research conducted under the rubric law and society.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5320 The Politics of Technology and the Technology of Politics

Credit 3 units.

POLSCI 5325 Topics in Political Science

This course is intended primarily for sophomores and juniors. The topic of this course varies by semester, dependent on faculty and student interests.

Credit 3 units. A&S IQ: SSC Art: SSC BU: BA EN: S

POLSCI 5330 African American Politics

One of the distinguishing features of American government is its relationship with its African American citizenry. In response to the peculiar nature of the American political project as it relates to African Americans, African Americans have created a form of political engagement that is to a certain extent sui generis. The goal of this course is to familiarize students with black politics in the contemporary United States.

Credit 3 units.

POLSCI 5340 Democracy, Responsiveness, and Accountability

This course focuses on the question: To whom - what interests, whose demands - do elected politicians respond when making policy? In the last 30 years, the number of countries that select their rulers through competitive elections has increased sharply. The performance of many of these regimes, however, raises serious doubts about the extent to which elections guarantee a close correspondence between citizen preferences and policy outputs. The class explores the practical implications of ideals like responsiveness and accountability for elected officials, and how these operate in conjunction with the separation of powers, independent judiciaries, political party discipline, pressure from international actors, as well as more base incentives, like personal ambition and corruption.

Credit 3 units.

POLSCI 5355 Measurement and Latent Trait Models

This class is an advanced quantitative methods course in which we will derive, fit, and analyze latent variable models commonly used in social science research. The ultimate goal is to give students the requisite skills and knowledge to apply these models in their own research. The course will focus on building foundational skills needed to engage contemporary measurement models and estimation techniques. In addition, the course will survey prominent and promising models in the political science, statistics, and psychology literatures.

Credit 3 units.

POLSCI 5360 Research Design

This course is designed to provide students with analytical skills for making and evaluating arguments and evidence about social phenomena, particularly in political science. Put differently, the course will help students discriminate between good and bad arguments.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5370 Political Psychology

Political psychology is a rapidly growing field of research located at the intersection of psychology and political science. Broadly, political psychology helps us understand how individuals think and feel about politics, and how these psychological factors shape political behavior. This course is designed to examine the major areas of research on how psychological factors explain important political phenomena, such as political, vote choice, polarization, partisanship, media consumption, political knowledge, political communication, and policy preferences. This course will draw heavily on research in American politics, but will extend to research across the subfields. Students will design and conduct independent research and engage in assignments geared toward professional development.

Credit 2 units.

Typical periods offered: Fall

POLSCI 5375 Democratization

This course offers an introduction to the extensive literature on democratization. It includes a combination of classic works on democratization as well as more contemporary work. It also addresses both domestic and international influences on the cause of democratization, as well as its effects.

Credit 3 units.

POLSCI 5390 Globalization and Democracy

Globalization poses challenges to democratic institutions. Democracy aims to align citizens' preferences and public policy through the use of elections. But many facets of globalization, for example, immigration, environmental pollution, and international finance, cannot be governed solely by domestic policy decisions within a single democracy. This raises the questions of how successful democratic systems are in realizing effective governance and meaningful electoral accountability. In this research-orientated course we address this question in the context of economic and environmental policy, two important and related areas of policymaking in which globalization plays a crucial role. The course consists of weekly lectures and tutorials. It is designed for students who share an interest in international relations, political economy, and electoral behavior.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5395 American Political Parties

This seminar will introduce students to core literature on political parties with a strong bias towards recent research.

Credit 3 units. A&S IQ: SSC EN: S

POLSCI 5400 Research in Political Science

Research

Credit 6 units.

Typical periods offered: Fall

POLSCI 5405 Research in Political Science

This course is open only to Ph.D. candidates who have passed their qualifying examinations and is to be under the supervision of an instructor of the department.

Credit 6 units.

Typical periods offered: Spring

POLSCI 5410 Political Violence

This course studies the ways non-state groups use violence in pursuit of political goals. During the semester, we will engage with contemporary research on political violence, including civil war, ethnic conflict, terrorism and communal riots. The goal of the course is to introduce students to major questions related to the study of political violence. What explains the onset of violence? Why do individuals choose to join violent movements? Is non-violent protest more effective than the use of violent tactics? During the semester, we will read a large volume of within-country and cross-national quantitative research on political violence. We will examine several cases in detail, including ethnic riots in India, Rwandan genocide, and Kurdish conflict in Turkey.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5415 Readings in Political Science

Credit 6 units.

Typical periods offered: Fall

POLSCI 5420 The Politics of Electoral Systems

We will look at the features of electoral systems that impose incentives for interparty and intraparty politics. Those features include ballot access, ballot type, the number and level at which votes are cast, the level to which votes pool, district magnitude, seat allocation formulas, and legal thresholds. A subset of these creative incentives for the relationships between parties include their number, relative size, and location in the policy space (interparty politics). An overlapping subset of these create incentives for the relationships within parties, including between leaders and backbenchers and between representatives and constituents (intraparty politics). We will examine the existing literature and do some original research of our own.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5425 Readings in Political Science

This course is readings in political science taken under the direction of an instructor in the department.

Credit 6 units.

Typical periods offered: Spring

POLSCI 5430 Longitudinal and Event History Models for the Social and Political Sciences

This course will cover the statistical concepts and techniques that are used to model social and political events over time, including basic time-series and event history (survival) data. Such data routinely occurs in both the social sciences and public health sciences. Lectures will introduce: second order stationary time series, autoregressive structures, spectrum and linear filtering theory, autocorrelation consistent (HAC) variance estimation, survival functions, hazard rates, types of censoring and truncation. Modes of inference for regression models will be provided. All applied work will be in the R software environment for statistical computing and graphics. Students will be able to identify and classify data problems in longitudinal analysis, define the appropriate function accounting for time as well as summarize and interpret analyses of such data using various estimators. In addition, participants will be able to formulate research questions related to longitudinal data and the appropriate associated regression models or other approach.

Credit 3 units.

POLSCI 5435 Seminar in Political Economy

This research seminar will introduce the student to recent work on the political economy of democracy. We shall start with a historical account of the development of democratic institutions in Britain and the United States, and then continue with recent work on modeling elections. We shall compare elections in countries that make use of proportional electoral systems, such as Israel, with those like the United States and Britain that are highly majoritarian. Finally we shall discuss the forces of democratization and globalization. The required work for the seminar is a research paper approximately 20pp (double spaced) in length.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

POLSCI 5440 Comparative Political Economy

This seminar will introduce the student to aspects of social choice theory, applied to themes to do with the economic origins of democracy, democratization and the stability of social orders. We shall read and discuss a number of recent books: Acemoglu and Robinson on Economic Origins; North, Weingast and Wallis on Violence and

Social Order; Przeworski on Democracy and Development; Ferguson on Money; Collier on Wars Guns and Votes. If time permits I also hope to discuss recent work by Stern on the Economics of Climate Change. Students will be expected to work on two short research paper, either empirically or theoretically based, and make a presentation of their work near the end of the semester.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

POLSCI 5516 Field Experiments in Comparative Politics

This seminar course introduces students to field experiments as a tool to shed light on important questions in the field of comparative politics. Each session, students will learn about an aspect of experimental design with an emphasis on challenges that can arise when taking experimental designs to the field. The course will draw on cutting-edge experimental work on the comparative politics of developing countries to illustrate these concepts. Every week, students will critically engage with the research design and findings of experimental papers on a particular substantive topic. The goal of the course is to enable students to design their own experiments and practically implement them in the field.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5545 American Politics Workshop

The American Politics Workshop will be a one-credit, repeatable graduate course for students interested in American politics. Its goal is the development of professional researchers in American politics. The workshop will provide a forum for graduate students to present and receive feedback on written work; it will also involve professionalization activities that are directly aimed at helping students thrive as researchers as they proceed through the graduate program.

Credit 1 unit.

Typical periods offered: Fall, Spring

POLSCI 5561 Seminar in Security and Conflict

This course serves as a field seminar for the conflict and security sub-field of International Relations. We cover the theories and approaches central to understanding cutting-edge research in conflict and security, with a focus on the sort of work that is being published in top journals. We will cover topics such as the sources and (sometimes long-term) consequences of interstate conflict and war, key theories and empirical approaches in the fast growing field of civil conflict, as well as topics at the intersection of security and international political economy. This course is intended to serve as a field seminar for students interested in core topics in conflict and security.

Credit 3 units.

Typical periods offered: Fall, Spring

POLSCI 5571 Gender and Politics

A survey of central topics in gender and politics, including issues such as women's and men's representation in government, women as voters and candidates in political elections, gender and political participation in political parties and social movements, and gender and policy representation.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5580 Seminar in Public Policy/Political Economy:

This course will survey the international political economy (IPE) literature as a foundation for analyzing the political economy of financial crises. The recent backlash against globalization provoked by populist movements in advanced economies is not a new phenomenon. Populist movements arose following the Long

Depression in the late 19th century and the Great Depression in the 20th century, which provide historical parallels for the causes and responses to the 2007-2008 global financial crisis. Utilizing historical, analytical, and theoretical literature, we will explore the IPE field with the intention of understanding the causes and distributional effects of financial crises. Students will submit a final term paper that analyzes the political ramifications (broadly defined) of a financial crisis of their choosing.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5595 American Political Behavior

This will be a graduate field seminar in American political behavior.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5626 Applied Statistical Programming

Statistical computing is a quickly changing field. Standard techniques of today would have been difficult to execute fifteen years ago and impossible in the early 1990s. Rapid improvements in computing power have been accompanied by swift changes in standard statistical methods. In just the last decade, techniques ranging from Markov chain Monte Carlo (MCMC) simulation, randomization inference, network analysis, and non-parametric matching have moved from being novel, advanced applications to commonplace across the social sciences. This class is designed to achieve two broad objectives. More narrowly, it aims to guide students as they learn the specifics of the R programming language, a powerful statistical computing environment widely used in the fields of political science, network analysis, machine learning, and statistics. Achieving this goal will require students to learn commands, best practices, and work-arounds specific to the sometimes idiosyncratic R language.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5690 Quantitative Political Methodology I

This is a first course in political methodology. The primary topic will be the linear regression model, in both scalar and matrix form. The course will cover estimation, inference, specification, diagnostic tools, data management, and statistical computation.

Credit 3 units.

Typical periods offered: Spring

POLSCI 5695 Quantitative Political Methodology II

This is a second course in political methodology covering advanced methods of statistical analysis for political and other social scientists. Covers maximum likelihood estimation for various cross-sectional, time series, and measurement models.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5720 Topics in Quantitative Political Methodology:**Computational Social Science**

Over the last decade, the scale and scope of data available to social scientists has exploded. In this course, students learn computational methods for the analysis of new types of data, including networks, text, audio, images, and videos. We begin with mechanistic approaches to supervised and unsupervised learning, then move to statistical inference with probabilistic interpretations, paying particular attention to the use and misuse of these models in the social sciences. In addition to problem sets, students will collect and analyze novel data to be presented in a department poster session at the end of the semester.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5725 Multilevel Models in Quantitative Research

This course covers statistical model development with explicitly defined hierarchies. Such multilevel specifications allow researchers to account for different structures in the data and provide for the modeling of variation between defined groups. The course begins with simple nested linear models and proceeds on to non-nested models, multilevel models with dichotomous outcomes, and multilevel generalized linear models. In each case, a Bayesian perspective on inference and computation is featured. The focus on the course will be practical steps for specifying, fitting, and checking multilevel models with much time spent on the details of computation in the R and Bugs environments. PREREQ: Math 2200, Math 3200, Poli Sci 581, or equivalent.

Credit 3 units.

POLSCI 5735 Research Workshop I

The objective of this course is to provide a forum in which students propose, develop, and complete research projects that are marketable to a broad political science audience, and to help students refine their analytical and writing skills. The course is targeted toward students in their 3rd year. The specific goals for each student include (a) finalizing their 3rd year paper and preparing it for submission to a journal, and (b) developing a first draft of their dissertation prospectus. Participation is an essential component of the seminar. Students are expected to (1) submit and/or present their work based on a schedule that is finalized at the start of the semester, and (2) give written feedback and engage in discussion of the work submitted by their peers every week.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5736 Research Workshop II

The objective of this course is to provide a forum in which students propose, develop, and complete research projects that are marketable to a broad political science audience, and to help students refine their analytical and writing skills. The specific goal of the course is for each student to develop a first draft of his/her dissertation prospectus and prepare it for submission to his/her dissertation committee. Participation is an essential component of the seminar. Students are expected to (1) submit and/or present their work based on a schedule that is finalized at the start of the semester, and (2) give written feedback and engage in discussion of the work submitted by their peers every week. Prerequisite: L32 590

Credit 3 units.

Typical periods offered: Spring

POLSCI 5737 Workshop on Research and Writing

Workshop on Research and Writing will be a one-credit, repeatable graduate course for students developing their independent research projects. Its goal is to help students develop into professional researchers by refining their academic writing and presentation skills. The workshop will provide a forum for graduate students to present and receive feedback on written work. It will also involve professionalization activities that are directly aimed at helping students thrive as researchers as they proceed through the graduate program and start their independent careers.

Credit 1 unit.

Typical periods offered: Fall

POLSCI 5740 Democratization in the United States

To what extent has the United States fulfilled the promise of democracy throughout its history? This course will explore the ways that voting rights, political institutions, and public opinion have combined to limit or extend popular government in the United States. Particular focus will be given to changes in voting rights throughout U.S. history. Why have certain groups been denied or extended the franchise? What are the consequences of altering the franchise for lawmaking and public policy? Reading will be both theoretical and empirical, with specific attention paid to limits on the franchise in the early American republic, fluctuations in African-American suffrage, the extension of the right to vote to women, the disenfranchisement of those convicted of felonies, and concerns about access to voting and registration for disadvantaged groups in recent years. Additional areas of focus will include the role of political parties in American democracy, access to office-holding, the role of the media in facilitating democratic governance, the impact of protest and other non-voting methods of democratic political participation, the importance of legislative and electoral institutions for representation, and democratic backsliding. Most readings will focus on the United States, with occasional readings about other countries used to highlight the ways that democratization in the United States is and is not unique in comparative perspective.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5742 Survey Research Practicum

A research practicum in designing surveys and survey experiments. Topics include sampling, survey modes, questionnaire design, ethics and the Institutional Review Board, and analyzing survey data.

Credit 3 units.

POLSCI 5745 Public Opinion

This course explores the processes by which citizens form and change their opinions. It will cover the methodological tools scholars use to measure opinions, especially surveys and experiments. Topics include political knowledge, mass communication, partisanship, ideology, policy issues, institutional outcomes, social networks and context.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5750 Territory and Group Conflict

Territorial conflicts are among the most contentious and difficult to resolve in international politics. Territorial conflict is also found to be one of the most frequent causes of intrastate violence and civil war onset. At a theoretical level, territory is central to almost any aspect of international relations, as it is what physically defines states, where any kind of violent conflict takes place, and influences the character of violent conflict in important ways. A large empirical literature convincingly shows that territory is a key determinant of international conflict. However, much remains unexplored both theoretically and empirically. In this course, we explore the role that territory plays in a wide variety of contexts. We motivate the course by noting that although territory has been shown to be empirically central to the majority of violent disputes, explanations for why this is the case lag behind the evidence. Subsequently, we study the role territory plays in state-making, international conflict, the settlement of disputes, international trade, international investment, the effectiveness of treaties, ethnic identity, and civil wars, among others. Week by week we pay particular attention to the central theoretical role territory plays in international relations. We will put particular emphasis on thinking about how territory relates to bargaining models of conflict.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5755 Governance, Accountability, and Corruption

In this class, we will explore the literature on political accountability, governance and corruption. Topics will include: public sector professionalization, measuring corruption in OECD and low-income settings, electoral accountability and government responsiveness, foreign aid and good governance. The course will provide an opportunity to explore relevant data (including replication data) with the aim to develop new research papers.

Credit 3 units.

POLSCI 5762 Identity, Power, and Politics Research Workshop

This graduate seminar brings together students whose research examines how gender, race, sexuality, class, and other axes of identity shape political power, participation, and representation. Spanning the traditional subfields of political science, the course provides a forum for presenting and refining research that investigates the experiences, representation, and influence of groups historically excluded from political power. Students will share work in progress, offer and receive constructive feedback, and develop professional skills essential to publishing and presenting research. The seminar also builds a collaborative community of scholars committed to expanding the study of politics to more fully capture the diversity of political actors, institutions, and experiences. Regular attendance and participation are expected for students whose work engages with questions of identity, inequality, and representation, and encouraged for others with related interests.

Credit 1 unit.

Typical periods offered: Fall, Spring

POLSCI 5831 Computational Social Science

Over the last decade, the scale and scope of data available to social scientists has exploded. In this course, students learn computational methods for the analysis of new types of data, including networks, text, audio, images, and videos. We begin with mechanistic approaches to supervised and unsupervised learning, then move to statistical inference with probabilistic interpretations, paying particular attention to the use and misuse of these models in the social sciences. In addition to problem sets, students will collect and analyze novel data to be presented in a department poster session at the end of the semester.

Credit 3 units.

Typical periods offered: Fall

POLSCI 5913 Civil War

Civil wars have become the prevailing political crises of our times. This course will introduce students to the study of intrastate conflict in political science, overviewing both classics as well as more recent research in the field. We will study the sources of violence within states; debates about the role of identity in civil wars; the dynamics of conflict during wars; international intervention and peacekeeping; and the impact of climate change. The readings in the course use a mix of qualitative, advanced quantitative, experimental, and formal methods. Regions covered include (but are not limited to) Europe, Africa, and the Middle East.

Credit 3 units.

POLSCI 6000 Master's Continuing Student Status

Credit 0 units.

POLSCI 6996 Political Science Elective (GRAD)

Credit 0 units. EN: S

POLSCI 8000 Doctoral Continuing Student Status

Credit 0 units.

POLSCI 8010 Doctoral Nonresident

Credit 0 units.

Political Science, PhD

Phone: 314-935-5810
Email: polisci@wustl.edu
Website: <https://polisci.wustl.edu/>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 40 units
- **Degree Length:** Five years
 - First-year students take approximately four courses per semester. Second-year students typically take three courses. Third-year students take one required course in the fall semester and otherwise take courses relevant to their interests. All students enroll in research workshops for their subfields. Most apply for academic jobs in the fall of their fifth year and complete the dissertation by the summer of that year.
 - **Note:** Students must be enrolled in 9 graduate credits (5000-level courses) each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
 - Students who are completing a Mentored Teaching Experience (typically students in Years 2 through 4) need to enroll in the appropriate MTE course (consult the MTE Implementation Plan).
 - **Grade Requirement:** A grade of B+ or greater is required for coursework to count toward the degree.

PhD in Political Science

Students in the PhD program are expected to acquire the following:

- A broad understanding of several fields of political science as a discipline
- Methodological competence sufficient to be productive professionals
- Specialized expertise in a particular field of concentration

The procedures and requirements described below are designed to facilitate the achievement of these objectives. In addition to the formal requirements stated here, we provide a list of recommendations that students should follow to succeed in the program. For a detailed year-to-year outline of requirements and recommendations, please refer to the section "Specific Requirements for Each Year in the Program" at the end of the *Guide to Graduate Studies*, located on the Graduate Program website.

Exceptions to any of these requirements must be approved by the director of graduate studies (DGS) in consultation with the Graduate Committee and, as needed, the respective Field Committee.

General Course Requirements

In general, all students must successfully complete the following core courses with a grade of B or better:

- Math Camp (offered during the August before the first semester)
- POLSCI 5080 Theories of Individual and Collective Choice I (first semester)
- POLSCI 5094 Mathematical Modeling in Political Science (first semester)
- POLSCI 5690 Quantitative Political Methodology I (second semester)
- POLSCI 5695 Quantitative Political Methodology II (third semester)
- POLSCI 5063 Causal Inference (fourth semester)
- POLSCI 5735 Research Workshop I (fifth semester)

According to the Probation and Dismissal Policy, if a student fails to obtain a B (3.0) in one of the required courses, they will be placed on academic probation and have the opportunity to retake the course the following year. Failure to obtain a B (3.0) after taking the course for the second time will result in dismissal from the program. Furthermore, failure to obtain a B (3.0) in another required course while on probation is considered extreme underperformance and will result in dismissal from the program.

In addition to required courses, students will be taking courses in different fields. Courses are mainly concentrated during the first two years. Students should plan to take four courses per semester during their first year and three courses per semester during their second year.

Fields

The department divides the discipline of political science into six fields:

- American politics
- Comparative politics
- Formal theory
- International politics
- Political and social theory
- Quantitative methods

Before writing the dissertation, students must pass a qualifying evaluation (refer to next section) and fulfill requirements for certification in one major and one minor field. The major and minor field certifications are intended to ensure that students possess broad familiarity with the literature and material in the fields presented.

Field requirements are met by completing the required courses with a grade of B+ or better. A major field requires completing four courses in that field with a grade of B+ or better; a minor field requires completing three courses in that field with a grade of B+ or better.

Students are expected to complete course requirements for the major and minor by the end of their fourth semester. Exceptions can be granted by the DGS on a case-by-case basis but are not possible beyond the student's sixth semester.

Field Requirements

American Politics

- **Major:** Students must satisfactorily complete (with a grade of B+ or better) at least four graduate-level seminars in American politics, including POLSCI 5210 American Political Institutions and POLSCI 5595 American Political Behavior.
- **Minor:** Students must satisfactorily complete (with a grade of B+ or better) at least three graduate-level seminars in American politics, including POLSCI 5210 American Political Institutions and POLSCI 5595 American Political Behavior.

Comparative Politics

- **Major:** Students must satisfactorily complete (with a grade of B+ or better) at least four graduate-level seminars in comparative politics, including POLSCI 5140 Approaches to Comparative Politics.
- **Minor:** Students must satisfactorily complete (with a grade of B+ or better) at least three graduate-level seminars in comparative politics, including POLSCI 5140 Approaches to Comparative Politics.

Formal Theory

- **Major:** Students must satisfactorily complete (with a grade of B+ or better) at least four graduate-level seminars in formal theory, including POLSCI 5080 Theories of Individual and Collective Choice I and three other 5000-level courses that require POLSCI 5080 Theories of Individual and Collective Choice I as a prerequisite. With permission of the Formal Theory Field Committee, an appropriate 5000-level economics course may be substituted.
- **Minor:** Students must satisfactorily complete (with a grade of B+ or better) at least three graduate-level seminars in formal theory, including POLSCI 5080 Theories of Individual and Collective Choice I and two other 5000-level courses that require POLSCI 5080 Theories of Individual and Collective Choice I as a prerequisite. With permission of the Formal Theory Field Committee, an appropriate 5000-level economics course may be substituted.

International Politics

- **Major:** Students must satisfactorily complete (with a grade of B+ or better) at least four graduate-level seminars in international politics. This requirement includes the 5000-level graduate sequence and 5000-level political science and economics courses authorized by the International Politics Committee.
- **Minor:** Students must satisfactorily complete (with a grade of B+ or better) at least three graduate-level seminars in international politics. The requirement includes the 5000-level graduate sequence and 5000-level political science and economics courses authorized by the International Politics Committee.

Political and Social Theory

- **Major:** Students must satisfactorily complete (with a grade of B+ or better) at least four graduate-level courses in political theory; the theory faculty recommends at least two of the History of Political Thought courses (POLSCI 5130 History of Political Thought I: Justice, Virtue, and the Soul, POLSCI 5133 History of Political Thought II: Legitimacy, Equality and the Social Contract, and POLSCI 5134 History of Political Thought III: Liberty, Democracy, and Revolution) and at least two seminars in political theory.
- **Minor:** Students must satisfactorily complete (with a grade of B+ or better) at least three graduate-level courses in political theory authorized by the Political Theory Committee.

Quantitative Methods*

- **Major:** Students must complete (with a grade of B+ or better) at least four methods courses. This includes the required quantitative methods sequence (POLSCI 5690 Quantitative Political Methodology I, POLSCI 5695 Quantitative Political Methodology II, and POLSCI 5063 Causal Inference) plus one additional elective methodology courses authorized by the Quantitative Methods Committee.

- **Minor:** Students must complete (with a grade of B+ or better) the quantitative methods sequence (POLSCI 5690 Quantitative Political Methodology I, POLSCI 5695 Quantitative Political Methodology II, and POLSCI 5063 Causal Inference).

Note: Mathematical Modeling for Political Science does not count toward either the quantitative methods major or minor.

If a student receives approval from the DGS and the Quantitative Methods Committee to course out of one or more required courses in the methods sequence (POLSCI 5690 Quantitative Political Methodology I, POLSCI 5695 Quantitative Political Methodology II, and POLSCI 5063 Causal Inference), the student interested in a major or minor in Quantitative Methods must replace those courses with additional elective methodology courses approved by the Quantitative Methods Committee and the DGS. As part of the approval process to course out of a required course in the methods sequence, the student will need to pass an in-person placement exam administered before the beginning of the academic year in which the student is required to take the class.

According to the Probation and Dismissal Policy, if a student fails to meet field requirements as a result of grades or for other reasons by the end of their fourth semester, they will be placed on probation for one semester. Failure to meet the field requirements by the end of that probationary semester results in dismissal from the program.

Qualifying Evaluations

Each student will be evaluated at the end of each semester through their second year. These evaluations will take place at the end of their first and second semesters, the end of their first-year summer, and the end of their third and fourth semesters.

Evaluation criteria for the academic year include the following: regular classroom attendance (at least 90%), participation in departmental intellectual life (e.g., seminars, conferences, professionalization workshops), and grades (a grade of B or higher for all required courses). Grades will be particularly emphasized, and faculty of required courses will use grades as clear communication that students have mastered the course material. Each required course will include a cumulative final exam or another final assignment of a cumulative nature that will assess the student's broad mastery of relevant materials.

At the end of their first-year summer, students must submit the following: 1) evidence of research progress (which can consist of skill development, collaborative research, or individual research output); and 2) feedback from a faculty mentor.

The DGS will seek feedback regarding student performance and engagement. To remain in good standing, students must be doing the following: 1) be making good progress with respect to their coursework and mentored teaching experience assignments; 2) be advancing in terms of their research trajectory, as appropriate for their stage in the program; and 3) be maintaining professional comportment with faculty, peers, and staff.

If a student fails to successfully pass any of these evaluations, they will be placed on academic probation. If the student makes significant progress during the next evaluation period and satisfactorily addresses the terms of the probation, they will be removed from probation and return to good standing. Failing to make significant progress during the next evaluation period may result in dismissal from the program.

Third-Year Paper Requirement

During their second and third years, each student is required to produce a solo-authored research paper. The expectation is that this paper will be in the same field as the student's dissertation and at the level of quality for submission to a peer-reviewed journal.

Students need to identify a Research Advisory Committee, which will include two advisors (i.e., the research paper chair and a second reader) and one alternate advisor in case the chair or second reader are unexpectedly on leave. Students must submit a completed and signed RAC form by January of Year 2. In consultation with these advisors (i.e., the committee), they need to develop a research design (motivation, theory, design, data sources) by the last day of classes of the spring semester of their second year. By the end of the spring semester, the student needs to schedule a formal defense of the proposal with their committee and, after the defense, submit a form with the advisors' signatures to the departmental administrative assistant responsible for graduate affairs.

The third-year paper is due to the committee by the first day of classes of the third year. The committee will grade these submissions within the first two weeks of the semester. At this point, students will either receive a "revise and resubmit" or a "reject and resubmit" from their committee. A "reject and resubmit" is a judgment by the faculty that the paper does not reflect satisfactory progress toward the research paper. Students receiving this evaluation will be placed on academic probation, and a failure to significantly improve the project will result in dismissal from the program.

Students will enroll in Research Workshop during their third year. This fall workshop is devoted to helping students revise their papers for final submission.

The final papers are due to the DGS and both readers by the start of the sixth semester. Students are required to defend the paper publicly. The DGS will organize a public presentation for all research papers within the first three weeks of the spring semester.

The Third-Year Committee will evaluate the quality of the research paper and its potential for submission to and acceptance in a peer-reviewed journal. Students who received a "reject and resubmit" during the first round should anticipate stricter scrutiny from faculty at this stage. The paper can be graded as pass or fail. A failing grade in this defense by students who previously received a "reject and resubmit" will result in dismissal from the program. A failing grade without a prior "reject and resubmit" will result in the student being placed on probation until they resubmit and successfully pass the research paper requirement, which must occur before the end of the spring term. Failing to submit the revised paper and earn a passing grade by the end of the spring term will result in dismissal from the program.

In the event of disagreement between the chair and the reader, the DGS will select a third reader in consultation with the faculty in the student's area of study to evaluate the paper and make a decision about the final grade. The research paper chair and the reader(s) will inform the student and the DGS of the final grade, together with an explanation, within two weeks after the defenses have been completed.

Annual Review

In addition to the formal qualifying evaluations outlined above, each student will be evaluated by the faculty annually. The faculty will conduct a formal annual review of all graduate students. Early in the Spring term, the DGS will solicit evaluations from each faculty member about each graduate student. Those with no basis for comment can simply indicate as much. A faculty meeting will subsequently be scheduled where each student's progress will be discussed. These reviews serve as the basis for students' qualifying evaluations and will be a major factor in decisions concerning future financial support and students' standing in the program.

- Students in Year 1 and Year 2 will receive letters from the DGS reflecting their annual review as part of Qualifying Evaluation 2 (Year 1) and Qualifying Evaluation 5 (Year 2).
- Students in Year 3 will receive letters from the DGS reflecting their annual review as part of the Third Year Paper process. Faculty will evaluate each student in Year 3 based on their overall progress at this point in the program, which will include reviewing their documented progress in Qualifying Evaluations 1-5, an unofficial transcript, their final third year paper (written product), their third year paper presentation (oral presentation), and their Dissertation Committee Proposal Form. This is an opportunity for the faculty to evaluate student progress at a critical point in the program as they begin their dissertation research. Note that even if students pass their Third Year Paper (see below), they can still be placed on probation or be recommended for dismissal based on a poor evaluation during this review. After the meeting, the DGS and/or faculty advisor will convey to the students the combined faculty evaluation of their progress as well as recommendations for future steps. Students who receive strongly negative feedback may wish to consider leaving the program with a terminal MA.
- Students in Year 4 will be evaluated based on their overall research progress as they move toward defending their prospectus. Examples of making good research progress in Year 4 include (but are not limited to) successfully defending a dissertation prospectus, submitting an article (i.e., Third Year Paper, coauthored paper, dissertation chapter) for peer review, presenting a working paper (i.e., dissertation chapter, coauthored paper) at an academic conference, and completing MTE requirements. Students preparing for the academic job market should have a complete draft of their job market papers; students preparing for nonacademic career paths should be taking steps toward their job searches. After the meeting, the DGS and/or faculty advisor will convey to



the students the combined faculty evaluation of their progress as well as recommendations for future steps. Students who receive strongly negative feedback may wish to consider leaving the program with a terminal MA.

- Students in Year 5 will be evaluated based on their overall research progress as they move toward defending their dissertations and entering a job market (academic or non-academic). Examples of making good research progress in Year 5 include (but are not limited to) successfully defending a dissertation, submitting an article (i.e., Third Year Paper, coauthored paper, dissertation chapter) for peer review, presenting a working paper (i.e., dissertation chapter, coauthored paper) at an academic conference, teaching a course as an Instructor of Record, applying for jobs, and completing necessary paperwork for graduation. If students are planning to take a sixth year, they should be making excellent progress toward completing their dissertations as evaluated by their committee members and chair. After the meeting, the DGS and/or faculty advisor will convey to the students the combined faculty evaluation of their progress as well as recommendations for future steps. Students who receive strongly negative feedback may wish to consider leaving the program with a terminal MA.
- Students in Year 6 will be evaluated based on their overall research progress as they move toward defending their dissertations and entering a job market (academic or non-academic). Students must graduate by May of their sixth year or will be placed on probation. The student then has a chance to finish their dissertation by the August of their seventh year. Failing that, they will be dismissed from the program. As such, students making good progress should have their dissertation defenses scheduled and a clear plan for finishing the work. After the meeting, the DGS and/or faculty advisor will convey to the students the combined faculty evaluation of their progress as well as recommendations for future steps. Students who receive strongly negative feedback may wish to consider leaving the program with a terminal MA.

Dissertation Committee and Prospectus Requirement

Students are required to form a preliminary Research Advisory Committee (RAC) by January of Year 2. This committee consists of at least three full-time Washington University faculty members. This preliminary committee will advise the student's Third Year Paper, with one committee member designated as the Chair (primary advisor) and another committee member designated as the second reader. The third committee member can take a less central role in advising the Third Year Paper and can instead be an alternate reader in the event that the chair or second reader is unexpectedly unavailable (i.e., on leave). Students may revise their RAC by submitting a new form when they develop their dissertation prospectus. The DGS will assist the student with making sure the composition of the committee meets the requirements of the Office of Graduate Studies, Arts & Sciences.

Students will enroll in the Research Workshop during their third year. The spring semester of this workshop is devoted to helping students develop their dissertation prospectuses.

Students are required to have defended the dissertation prospectus by the end of the seventh semester (December of Year 4). Dissertation prospectus defenses will be announced in advance and will be open to the public. Students who fail to schedule a defense or who fail the defense will be put on probation and may re-defend their prospectus by May 1. Failing to schedule or failing the re-defense results in dismissal from the program.

Students are encouraged to apply for the National Science Foundation Dissertation Improvement Grant and to other outside funding agencies to pursue additional financial support for their dissertation research.

Summary Timeline

(Please refer to "Specific Expectations for Each Year in Program" in the *Guide to Graduate Studies* on the Our Resources page of the Department of Political Science website for more details.)

- End of first semester (December): Evaluation of class performance and general progress
- End of second semester (May):
 - Evaluation of class performance and general progress
 - Submit summer research proposal
- Beginning of third semester (August):
 - Submit summer research progress
 - Evaluation of summer research and general progress
- End of third semester (December): Evaluation of class performance and general progress
- Beginning of fourth semester (January):
 - Submit Research Advisory Committee Form
- End of fourth semester (May):
 - Major and minor field requirements completed
 - Required courses (with the exception of the Research Workshop) completed
 - Defend Third Year Paper prospectus
 - Evaluation of class performance and general progress
- Beginning of fifth semester (August): Submit third-year paper
- Beginning of sixth semester (January): Resubmit and defend third-year paper
- End of seventh semester (December):
 - Defend Dissertation Prospectus (resubmitted prospectus must be defended before the start of the eighth semester)
 - Submit Title, Scope, and Procedure Form
- Advance to Doctoral Candidacy

Dissertation and Defense

The requirements for the completion of the dissertation are described in the general degree requirements by the Office of Graduate Studies, Arts & Sciences, which are applicable to all Washington University doctoral candidates.

Graduation

Students need to graduate by May of their fifth year. Failure to do so results in the student being placed on probation. The student then has a chance to finish their dissertation by August of that same year. Otherwise, they will be dismissed from the program. Rare exceptions may be made for students who have obtained a sixth year of funding and approval from the department and the Office of Graduate Studies, Arts & Sciences.

Foreign Language Requirement

There is no uniform foreign language requirement set by the Office of Graduate Studies, Arts & Sciences, or by the department. The extent and substance of foreign language competence required will be determined by the Graduate Committee in consultation with the student and their advisor.

Mentored Teaching Experience Responsibilities

Mentored Teaching Experiences (MTEs) are curricular in nature and require that students collaborate with a faculty member.

Mentored teaching responsibilities vary from course to course but, in all cases, consist of attending class and grading papers and assignments. Examples of other responsibilities include running discussion sections or reviews, disseminating course materials, and holding office hours.

Graduate students are expected to participate in the MTE for an average of 10 hours per week. During some weeks, the MTE will involve considerably fewer hours; during other weeks (usually around midterms and finals), it will involve considerably more hours.

Faculty are expected to set expectations for grading at the beginning of each semester, and graduate students should plan accordingly for weeks of heavier grading or other responsibilities.

According to the Probation and Dismissal Policy, poor performance in the fulfillment of mentored teaching responsibilities will result in the student being placed on probation. Lack of improvement while on probation will result in dismissal from the program.

Mentored Experience Requirement

All students need to meet the mentored experience requirement of the Department of Political Science and the Office of Graduate Studies, Arts & Sciences, by the time they graduate. This requirement includes the following:

- Participating in departmental intellectual life, which includes but is not limited to meeting with outside speakers, attending talks and in-house conferences, presenting their own research, assisting with graduate student recruitment, and helping to organize in-house conferences (e.g., CPAC)
- Participating in an MTE for a "core" course in the student's field of study; "core" courses include introductory courses, Quantitative Political Methods, and other courses considered "core" by the DGS
- Giving at least one supervised guest lecture or presentation
- Participating in the MTE or teaching a class that involves regular interaction with students

The Department of Political Science has its own unique Mentored Experience Requirement Implementation Plan that all students in this program should review. It can be accessed at the dedicated tab above.

MA in Statistics

Students pursuing a PhD in political science may apply for a tailored MA in statistics. The completion of this program should not add any more time to a student's time to degree. Students should refer to the Statistics and Data Science, MA, Statistics for Political Science PhD Students Concentration Bulletin page for specific details about this program. Students pursuing the Statistics and Data Science, MA, Statistics for Political Science PhD Students Concentration are expected to complete their coursework by the end of Semester 5. In rare cases, such as when required courses were not available, students may take courses in their sixth semester to complete this degree, but only with prior approval from the DGS, Department Chair, Methods Field Chair, and the Office of Graduate Studies, Arts & Sciences.

Required Courses

Code	Title	Units
POLSCI 5024	Casual Inference	3
POLSCI 5080	Theories of Individual and Collective Choice I	3
POLSCI 5094	Mathematical Modeling in Political Science	3
POLSCI 5090	Quantitative Political Methodology I	3
POLSCI 5695	Quantitative Political Methodology II	3
POLSCI 5735	Research Workshop I	3

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

The pre-candidacy requirements for the Political Science PhD are the completion of required coursework; the completion of Qualifying Evaluations 1 through 5; the completion of the third-year paper; the completion of the Title, Scope, and Procedure Form; and the completion of the prospectus defense. Completion refers to passing with appropriate grades as required for good standing. Students should advance to candidacy by the end of their seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience

Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.

3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Our discipline is composed of the following subfields: American politics, comparative politics, formal theory, international relations, methodology and normative political theory. In both teaching focused institutions and research universities, professors are generally hired in one of these fields and are expected to teach courses in their respective fields.

The discipline is diverse with respect to teaching expectations and the desired balance of teaching and research. Our model PhD accepts a job at a research-centered university. The typical expectation at these jobs is that faculty teach one or two courses per semester and spend a significant amount of time doing research. The initial selection process for these jobs is primarily research oriented. We also place PhD graduates at liberal arts colleges and regional universities, where the teaching expectations are more significant (two or three courses a semester) and the initial selection process is more significantly teaching oriented. Finally, some of our PhD students take jobs in the private sector, positions which typically rely primarily on the research-oriented aspects of our training, but where teaching training will equip our PhD students with the skills of distilling complex topics and communicating them to target audiences. In summation, there is no one-size-fits-all solution to graduate mentorship.

Students applying to academic jobs are typically expected to submit teaching statements and sometimes evidence of teaching effectiveness alongside their research materials (job market paper, research statements, and so on).

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Since students do not engage in any mentored experiences in the first year, all students will have attended these workshops prior to their first mentored experience.

1. Attend a monthly professionalization workshop, which covers teaching-related issues in addition to research and other professional topics.
2. Attend the teaching workshop, which also meets monthly, and focuses completely on pedagogy and teaching. In addition to prepared monthly topics, the teaching workshop offers a space for PhD students to discuss experiences relevant to their MTE assignment with faculty who specialize in pedagogy.
3. Students must enroll in the Center for Teaching and Learning Teaching Orientation prior to their first MTE.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Political Science requires five or six AI engagements at 10 MER units for a total of 50 to 60 MTE. The number of AI engagements is dependent upon if students opt to take an MIT engagement.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

MIT is not required. Students may opt to take one MIT engagement at 20 MER units as part of their MTE requirements.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

A total of 60 to 70 MTE units is required via one of these pathways.

Pathway #1

ASGS 8010	Take six times

Pathway #2

ASGS 8010	Take five times
ASGS 8020	Take one time

Psychological & Brain Sciences

The Department of Psychological & Brain Sciences teaches graduate students who are interested in becoming the next generation of academic researchers and educators in psychological and brain sciences. Graduate study may be undertaken in the following general areas: Behavior, Brain & Cognition; Clinical Science; Aging & Development; and Social & Personality Psychology. The traditions of Washington University and the department encourage interdisciplinary graduate study, both between the subfields of psychological and brain sciences and across other disciplines. Therefore, although students must affiliate with at least one of the areas within psychological and brain sciences, they are frequently affiliated with multiple areas within the field. In addition, many graduate students in the department also engage in interdisciplinary learning, scholarship, and research. For example, cross-disciplinary opportunities and research are available in the Division of Biology and Biomedical Sciences (e.g., neuroscience, genetics); in the programs of Linguistics and of Cognitive, Computational, and Systems Neuroscience; and in Philosophy-Neuroscience-Psychology as well as in the School of Medicine, McKelvey School of Engineering, School of Public Health, and the George Warren Brown School of Social Work.

The Department of Psychological & Brain Sciences admits students for full-time study toward the **PhD in Psychological & Brain Sciences** and does not offer a standalone master's degree. However, students are required to complete a master's degree with a thesis as part of the requirements for a PhD. In addition, the PhD includes required courses (including statistics, research methods, ethics, and several core content areas), a subject matter exam, at least three semesters of a teaching experience to fulfill the doctoral teaching requirement,

and consistently high-quality research productivity that results in publishable findings. Students in the Clinical Science program also complete additional courses, practica, and a full-year clinical internship as part of their clinical training.

The Department of Psychological & Brain Sciences also offers the **Graduate Certificate in Quantitative Data Analysis**, which is open to graduate students of various disciplines. Advanced skills and knowledge in quantitative analysis, methods, and interpretation are critical assets for scholars in a wide range of disciplines within the social sciences. In addition, many of the important practical, analytical, and conceptual skills are shared across disciplines.

Many of the graduate programs in the social sciences include basic quantitative analysis skills within the core required curriculum of their department, but many students would benefit from advanced preparation in this domain. The certificate program provides an organized means for students to achieve an advanced level of knowledge and skill in quantitative social science data analysis, interpretation, and visualization that can be applied and shared in a variety of occupational domains.

The Graduate Certificate in Quantitative Data Analysis requires students to master both an introductory level and a more advanced level of quantitative skills and knowledge. Some of the introductory-level courses may overlap with courses that are already required within a student's individual PhD program curriculum, but the advanced level will require students to go beyond the basic expectations of their graduate program to achieve a greater depth and breadth of their knowledge and abilities.

Students interested in the Graduate Certificate in Quantitative Data Analysis should first apply for admission to the Washington University department in which they wish to obtain a graduate degree. After being admitted, students should notify their department advisor and the Graduate Certificate in Quantitative Data Analysis program director (currently dbarch@wustl.edu) (dbarch@wustl.edu) of their plans to obtain the certificate. In addition, students should submit an Application for Admission to Certificate Program form to the Office of Graduate Studies, Arts & Sciences, and send a copy to the Graduate Certificate in Quantitative Data Analysis office.

Phone: 314-935-6520
Website: <https://psych.wustl.edu/graduate-program>

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Degree Requirements

- Psychological & Brain Sciences, PhD (p. 427)
- Quantitative Data Analysis, Graduate Certificate (p. 431)

Courses

PSYCH 5030 Seminar: Experimental Social Psychology

This course provides broad exposure to the theory and methods of modern social psychology. The focus of the course will be on current theoretical issues in major areas of the field, including social perception, social cognition, attitude change, self and identity, aggression, prosocial behavior, interpersonal relations, and group processes. PREREQ: Graduate standing.
Credit 3 units.

PSYCH 5098 Advanced Seminar in Human Memory

An advanced exploration into a selection of current research topics on human memory using psychological, functional neuroimaging, and neuropsychological methods. Topics include encoding and retrieval of episodic memory, autobiographical memory, episodic future thought, and related topics. PREREQ: Cognitive Proseminar or permission of instructor.
Credit 3 units.

Typical periods offered: Spring

PSYCH 5115 Clinical Science: Professional Issues

As the third in a series of three core clinical science courses, this course focuses on (a) ethical foundations of clinical practice; (b) knowledge of issues of diversity and their application in clinical practice; (c) skill building in essential empirically supported techniques; and (d) building knowledge in current issues and standards of clinical science. The latter course content is purposefully kept open so that this course can be adapted as needed to address the most crucial concerns in the field. Prerequisites: Graduate study in the clinical science program or permission of instructors
Credit 3 units.

PSYCH 5176 Applied Statistical Analysis With R

This course is designed to introduce R as both a means of applied statistical analysis as well as a window into data organization and programming. The goal of the course is to teach the tools needed to take a raw dataset and not only perform a statistical test in R, but also learn how to arrange the dataset to perform a variety of tests, to choose the appropriate test, and to visualize the results. Students will gain practical knowledge of how to use statistics in research. Please note that this is an introductory course and knowledge of R prior to enrollment is not expected. PREREQ: Psych 300; OR graduate standing by permission.

Credit 3 units. A&S IQ: NSM Art: NSM

PSYCH 5183 Perception, Thought, and Action

This course focuses on current topics in visual perception, visual attention, and the control of action. Readings consist of recent journal articles. Class meetings emphasize presentation and discussion of the material in the readings. Limited to 15 students. PREREQ: Psych 100B/1000 and one of the following: Psych 301/3010, Psych 330/3300, Psych 3401, Psych 344/3440, Psych 360/3600, Psych 361/3610, Psych 3604, Psych 380/3800, Psych 433/4330, or Psych 4604.

Credit 3 units. A&S IQ: NSM BU: BA

PSYCH 5190 Advanced Cognitive, Computational and Systems Neuroscience

This course will develop critical thinking and analysis skills with regard to topics in Cognitive, Computational and Systems Neuroscience. Course format will be a series of modules composed of intensive, faculty-led case studies on interdisciplinary topics at the intersection of psychology, computation and neuroscience. The goal will be to highlight the benefits of integrative, interdisciplinary approaches, by delving into a small set of topics from a variety of perspectives, rather than providing a survey-level introduction to a broader set of topic areas. Modules will involve a combination of lectures and student-led discussion groups, with students further expected to complete a multi-disciplinary integrative final review paper. Case-study topics will vary somewhat from year to year, but are likely to include some of the following: temporal coding as a mechanism for information processing, coordinate transformations in sensory-motor integration, mechanisms of cognitive control, motor control strategies including application to neural prosthetics, and memory systems in health and disease.

Credit 3 units.

Typical periods offered: Fall

PSYCH 5226 The Psychology of Social Stigma

This seminar aims to introduce students to theoretical and empirical social psychological research on prejudice and social stigma. The topics covered will include examinations of why individuals stigmatize by exploring cognitive, evolutionary, self and system justification explanations. The course will examine the effects of stigmatization for low-status groups (i.e., stereotype threat, dis-identification, compensation and health outcomes). We will explore the role of stigma in intergroup interactions and variations in the experience of stigma. Finally, we will examine high-status groups' perceptions of bias (e.g., perceptions of anti-white discrimination). Prerequisite: Graduate standing in Psychological & Brain Sciences or related field with permission of instructor.

Credit 3 units.

Typical periods offered: Spring

PSYCH 5234 Introduction to the Psychology of Speech Perception

From an engineering standpoint, the ability to understand spoken language should not be possible and the difficulty of understanding speech is readily apparent in the thousands of programs designed to transcribe spoken input. Although some have reasonably good

accuracy, none can come close to the performance of a human listener. In fact, for humans, speech perception seems like an automatic process. In this course, we will examine the sensory, cognitive, and combined sensory-cognitive abilities necessary for accurate speech perception. We will also discuss and critically evaluate current theories and models of speech perception and how they apply to different populations (e.g., individuals with hearing loss, older adults). Finally, students will gain hands-on experience in the laboratory by analyzing speech signals. The course begins by considering the acoustic speech signal, and how the structured nature of acoustic variation informs perception. We will then turn to experimental work on speech perception that shows there is not a simple mapping between acoustic properties and linguistic percept; rather, there is both a many-to-one and one-to-many mapping between acoustic speech information and linguistic perception. We will also consider the dominant theories of speech perception and theoretical issues that have driven speech perception research for over 60 years, including the foundational question of whether speech perception differs from other types of auditory processing. We will end the course with a discussion of several special populations, all of whom have difficulty with speech perception, but allow us to examine the relative importance of sensory and cognitive abilities. A theme throughout the course is that students are introduced to the relation between theory and experimentation. Credit 3 units.

Typical periods offered: Spring

PSYCH 5321 Advanced Developmental Psychology

This graduate course will provide an in-depth survey of the foundations, theories, and current research in developmental psychology. We will study the cognitive and social processes that underlie how humans develop, with an emphasis on the period from infancy to late childhood. Topics will include the development of perception, action, language, concepts, emotions, morality, and social cognition.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 5322 Purpose And Identity Development Across The Lifespan

Throughout the lifespan, people are considering who they are and where they want to go in life. These challenges are never "done" and instead one continues to engage with self-exploration and commitment. This class will consider the multifaceted nature of purpose and identity development. Lectures will focus on integrating perspectives on these processes from human development, personality and social psychology, philosophical, psychology, and lifespan development.

Credit 3 units.

Typical periods offered: Spring

PSYCH 5427 Social Gerontology

This course provides an introduction to aging and growing old, from an interdisciplinary perspective. Specific attention is paid to demographics, physical health and illness, mental health, interpersonal relations, work issues, living arrangements, ethics, and death and dying. PREREQ: Junior or Senior standing and completion of 6 advanced units in Psychology.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

PSYCH 5452 Clinical Science: Introduction to Intervention

This course aims to provide students with an introduction to basic concepts and theoretical views of psychotherapy. Topics covered include aspects of therapeutic processes, such as case conceptualization, ethics, diversity, and termination, as well as foundational exposure to various systems of psychotherapy.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 5454 Introduction to Affective Science

The complexity and significance of emotions make their study particularly exciting and challenging. Emotions both shape and are shaped by our subjective experiences, physiology, behaviors, cognitions, social interactions, and health. This course offers an overview of theory and research on emotion with content stretching across psychological disciplines, including personality, social, clinical, developmental, and neuropsychology. Course content will include definitions of emotion, physiological changes associated with emotion, and individual differences in emotional experience. The course will also examine how culture, cognitions, and relationships affect and are affected by emotion and how emotion is related to physical and mental health. PREREQ: Graduate standing.

Credit 3 units.

Typical periods offered: Fall

PSYCH 5526 Neuropsychological Assessment

This course will provide an overview of clinical measures used in assessing neurocognitive function. Assessment of a broad range of abilities will be discussed, primarily within the domains of memory, attention, language, motor, and visuospatial function. The foci of the course will be test administration, test interpretation, communication of results, and discussion of the clinical features of selected neuropsychological syndromes. Prerequisite: Open to clinical graduate students in Psychological & Brain Sciences and other advanced graduate students with permission of the instructor.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 5591 The Development of Social Cognition

Children's ability to navigate the social world is a foundational skill that is present early in life and continues to develop throughout childhood. This course will explore topics such as infants' concept of agency, their understanding of intentions, how children learn from and about other people, how they begin to trust unfamiliar individuals, think about and interact in social groups, build relationships, and decide what is moral. We will also spend time examining what happens when the human capacity to understand the mind and regulate behavior is impaired, exploring neurodevelopmental and other disorders that typically begin in childhood (e.g., Autism, ADHD). This class should be of interest to students interested in all areas of psychological science, the application of developmental psychology to real-world issues including child care, education, law, public policy, pediatric medicine, and who (later!) want to be more informed parents.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 5594 Psychology of the Good Life

What is the good life, and how can people achieve it? This discussion-based seminar class explores two aspects of the good life: (1) good for oneself (living a personally fulfilled life), and (2) good for others (living an ethical life, being a good person). We will consider how psychological science can be used to conceptualize, uncover the causes of, and promote well-being for oneself and for others. There will be a particular focus on the ways in which these two aspects of the good life are in alignment or in conflict with each other. Classes will

focus on critically evaluating research and integrating and connecting the weekly readings to students' personal research interests and lives, primarily through student-led discussions. PRE-REQ: Graduate Standing

Credit 3 units.

Typical periods offered: Spring

PSYCH 5598 Human Evolutionary Psychology

How did evolution by natural selection shape the way human beings think and behave? Does evolution explain human cooperation and friendship, human morality, reproductive decisions and social interactions? What sex differences in cognition or behavior are caused by evolution? This course introduces the concepts and findings of evolutionary psychology, mostly through reading of primary sources--articles from psychology and biology journals--and discussion and presentation of empirical cases. PREREQ: At least 6 units of upper-level, home-based Psychology coursework, OR Anthro 3383.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

PSYCH 5611 Readings in Psychology

Prerequisite: Permission of the department.

Credit 3 units.

Typical periods offered: Fall

PSYCH 5620 Readings in Psychology

Credit 3 units.

Typical periods offered: Spring

PSYCH 5631 Introduction to Computational Cognitive Science

How does the mind work? Over the last few decades, cognitive psychologists have become increasingly interested in using computational models. These models are designed to describe cognitive processes and the behavior that is produced by them. This computational approach has several advantages. Computational theories of cognition are more specific than verbal theories. Therefore, they do not only afford precisely quantifying certain aspects of cognition, but they also make it possible to simulate cognitive processes. This course provides an introduction to several leading computational methods for understanding cognition, including model fitting and comparison, reinforcement learning, neural networks and Bayesian modeling. These methods will be applied to a wide range of cognitive phenomena, such as short-term memory, reinforcement learning, decision making, cognitive control, concept learning and visual perception. Prerequisites: Psych 100B and Psych 301/3011.

Credit 3 units. A&S IQ: NSM Art: NSM BU: BA

PSYCH 5640 Practicum in Psychotherapy

Ten hours per week supervised training in psychotherapy and behavior change in an applied clinical setting. PREREQ: Open to clinical graduate students in Psychological & Brain Sciences only.

Credit 1 unit.

Typical periods offered: Fall, Spring

PSYCH 5650 Teaching of Psychology

This course has three major objectives. First, it will provide guidance on the skills and tactics necessary for effective teaching. Topics to be covered range from the mundane (syllabus preparation) to the mystical (teaching style). We'll discuss how each plays an important role in effective teaching. Second, the course will alert students to the vast literature on teaching so that those wishing to further hone their skills will have resources at their fingertips when they later need them.

Finally, the course will provide a forum for discussion of issues and problems arising in the students' teaching experiences. Learning from your colleagues is a valuable part of your development as a teacher and this course will encourage you to start that dialogue.

Credit 2 units.

Typical periods offered: Summer

PSYCH 5665 The Science of Behavior

The primary function of nervous systems is to control behavior. Understanding the links between brain and behavior requires an understanding of cognition-the computations performed by the brain, as well as the algorithms underlying those computations and the physical substrates that implement those algorithms. The goal of this course is to introduce students to the tools, concepts, and techniques for the experimental study of cognition and behavior in humans and nonhuman animals. We will focus on cognitive capacities that are well-developed in humans and can be compared with those of other species, to develop an understanding of how evolution shapes cognition and behavior. Students who complete this course will be able to ask questions and form hypotheses about the computations and algorithms underlying cognition and behavior, and to design experiments that test these hypotheses. PREREQ: Graduate standing or permission of the instructor

Credit 3 units.

Typical periods offered: Fall

PSYCH 5765 Inside the Disordered Brain: Neural Systems of Behavior and Psychopathology

How do subtle disturbances in brain circuits lead to abnormal behavior and psychopathology? This course provides students with a working knowledge of our rapidly evolving understanding of brain circuits that create order in our social, emotional and cognitive worlds, and how disorder within these circuits leads to a broad range of psychopathology including depression, anxiety, phobias, PTSD, OCD, addiction, schizophrenia, psychopathy and violence. PREREQ: Psych 100B and one of the following: Biological Psychology (Psych 3401), Abnormal Psych (Psych 354), or a basic Biology/Neuroscience course.

Credit 3 units.

Typical periods offered: Fall

PSYCH 5870 Clinical Psychology of Aging

Methods of assessing cognitive functioning and personality in older adults. Understanding of the application of the techniques of assessment to older adults not the development of testing skills, is the goal of this course. PREREQ: PSYCH 426 or permission of Instructor.

Credit 3 units.

Typical periods offered: Spring

PSYCH 5883 Psychology of Aging

Study of both theory and empirical findings about the processes of aging in terms of brain structure and function, sensation, perception, cognition including learning and memory, intelligence, language, and related topics. PREREQ: Graduate students only.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 5884 Project Building in Aging

The goal of this course is to help students with an interest in aging research develop the critical thinking skills necessary to develop and implement high quality, interdisciplinary research projects.

Credit 3 units.

Typical periods offered: Spring

PSYCH 5886 Intervention With Older Adults

Individual, group, marital, family, and systems interventions as applicable to older adults. Emphasis is on the implementation and evaluation of these interventions in both clinical and research contexts. PREREQ: Graduate standing.

Credit 3 units.

Typical periods offered: Spring

PSYCH 5910 Research in Psychology

Prerequisite: Permission of the department.

Credit 9 units.

Typical periods offered: Fall

PSYCH 5920 Research in Psychology

Credit 3 units.

Typical periods offered: Spring

PSYCH 5921 Seminar: Theories of Social Psychology

This course provides broad exposure to the theory and methods of modern social psychology. The focus of the course will be on current theoretical issues in major areas of the field, including social perception, social cognition, attitude change, self and identity, aggression, prosocial behavior, interpersonal relations, and group processes.

Credit 3 units.

Typical periods offered: Fall

PSYCH 5940 Behavioral Psychology Readings Group

Credit 1 unit. A&S IQ: SSC Art: SSC EN: S

PSYCH 5958 Emotion Regulation

The purpose of this course is to provide an introduction to the field of emotion regulation. We will discuss theoretical and empirical work on emotion regulation from various areas of psychology, including social, personality, developmental, clinical, and neuroscience. Example topics include definitional issues, goals and strategies, personal and interpersonal consequences, sociocultural influences, life-span development, health and psychopathology. PREREQ: Psych 301.

Credit 3 units. A&S IQ: SSC Art: SSC EN: S

Typical periods offered: Spring

PSYCH 5991 Social Cognition

This seminar will focus on current theory and methods in social cognition, broadly defined. The goal of this course, much like the goal of research in social cognition is twofold: 1) to explore the cognitive underpinnings of social psychological phenomena, including person perception, stereotyping, attribution, emotion, automaticity, and self-construction, assessment, and regulation; and 2) to explore the social and contextualized nature of cognitive processes and content, including memory, judgment, and perception. Although the course draws primarily on readings from the social psychological literature, topics discussed are relevant to a variety of domains, including cognitive and clinical psychology. PREREQ, GRADUATE STANDING.

Credit 3 units.

Typical periods offered: Spring



PSYCH 5998 Recent Advances in Psychological Science Seminar Series

This is a regular seminar series offered in the department of Psychological & Brain Sciences that consists of outside speakers from around the world and country who present in the department colloquium series, as well as additional topics and speakers presented by faculty within the P&BS department. Attendance at this series is required for all graduate students in the department of Psychological & Brain Science. PREREQ: Graduate standing in P&BS.

Credit 1 unit.

Typical periods offered: Fall, Spring

PSYCH 7885 Masters Nonresident

Credit 0 units.

Typical periods offered: Fall

PSYCH 8003 First-Year Seminar for Graduate Students

This optional seminar for first-year students is intended to help orient the incoming graduate student to skills important for graduate school success. Topics covered include giving research talks, giving feedback to and receiving feedback from fellow students, and scientific writing. To help focus to these discussions, we will consider how to create a successful application for the National Science Foundation (NSF) Graduate Research Fellowship Program, and each student will write multiple drafts of the essays relevant to this program. PREREQ: First-year student in the Psychology graduate program or permission of instructor.

Credit 2 units.

Typical periods offered: Fall

PSYCH 8004 Scientific Writing for Graduate Students: Preparing an NSRA and Journal Manuscripts

This course is intended to provide students with an opportunity to learn about the basics of grant writing (based on NIH format) and preparing research manuscripts. The first two-thirds of the class will be spent discussing the different sections of NIH grants and how to write strong versions of each of these sections. The last third will be spent on discussing and writing the four main sections of a research manuscript.

Credit 3 units.

PSYCH 8011 Research Designs and Methods

This course provides graduate students with a broad-based exposure to conceptual and practical issues in planning, designing, executing and evaluating research in the behavioral sciences. Topics include Reliability and Validity, Experimental design, quasi-experimental design, single-case research, and passive observation designs. Prereq: Psych 406 and 407 or equivalent.

Credit 3 units.

Typical periods offered: Fall

PSYCH 8012 Selected Topics in Design and Statistics

This course will examine selected problems in the design and analysis of psychological research. Topics include the analysis of change, taxometric methods for investigating individual differences, bootstrapping, analysis methods, and common pitfalls in statistical inference.

Credit 3 units.

Typical periods offered: Fall

PSYCH 8015 The Psychology of Academia

This course will discuss the informal rules and practices of academia. The topics include how to succeed in graduate school, whether or not to take a postdoctoral fellowship before seeking a job, how to get hired, how to get tenure, how to mentor students, how to teach, how to plan your research career, and how to get grants. Other topics include issues of diversity in higher education and different prospects facing newly minted Ph.D.s who go into academia versus those who go into more applied settings. PREREQ: Graduate standing.

Credit 1 unit.

Typical periods offered: Fall

PSYCH 8066 Quantitative Methods I

Introduction to the theoretical concepts underlying quantitative methods in psychology. Topics include set theory, probability theory including the basic probability density functions and their cumulative distributions, joint events and stochastic independence, sampling theory and sampling distributions (including the binomial, normal, t, chi-square and F distributions), parameter estimation, interval estimation, the t-test, hypothesis testing, power, and some nonparametric statistics. Prerequisite, Graduate standing.

Credit 3 units.

Typical periods offered: Fall

PSYCH 8067 Quantitative Methods II

This course is a continuation of Psych 5066. It provides an introduction to multiple regression/correlation analysis. Topics include bivariate and multiple correlation and regression, representation of nominal or qualitative variables, power and orthogonal polynomials, interactions, analysis of covariance, and repeated measures design. Prerequisite: Psych 5066.

Credit 3 units.

Typical periods offered: Spring

PSYCH 8068 Hierarchical Linear Models

Data in the social sciences are frequently organized hierarchically: students are enrolled in courses, which exist within separate schools, which are parts of different school systems; employees work within teams within different divisions of a company; the outcomes for participants or patients in different treatment groups are measured different numbers of times and include covariates that vary over time; partners, parents, and children are parts of family units that are parts of different communities. Hierarchical data contain dependencies that preclude traditional analyses (e.g., simple analysis of variance or multiple regression), requiring instead an approach that correctly estimates error sources and identifies systematic effects at their appropriate level of influence. This course provides an introduction to the analysis of hierarchical data with an emphasis on the correct identification of models, analysis of hierarchical data with current software, proper interpretation of results, and use of appropriate diagnostic tests for model adequacy. Prerequisites: Psych 5066 and Psych 5067.

Credit 3 units.

Typical periods offered: Spring

PSYCH 8087 Advanced Cognitive Psychology

This course provides an advanced introduction to core topics in cognitive psychology. Topics may include attention, memory, categorization, metacognition, and decision modeling. Prerequisite: Graduate standing.

Credit 3 units. EN: S

Typical periods offered: Spring

PSYCH 8112 Psychological Assessment I

An introduction to the theory, development, and evaluation of cognitive assessment techniques and tests is provided. Students also gain experience in the administration, scoring, and reporting of results from standard assessment tools. Less commonly used approaches such as observational methods will be discussed. Relevant research relating to the assessment of diverse populations will be examined. **PREREQUISITE; OPEN TO CLINICAL PSYCHOLOGY GRADUATE STUDENTS AND OTHER ADVANCED GRADUATE STUDENTS WITH PERMISSION OF INSTRUCTOR.**

Credit 3 units.

Typical periods offered: Fall

PSYCH 8113 Psychological Assessment II

This course is an introduction to the theory, development, and evaluation of personality and diagnostic assessment techniques and tests. Topics will include psychometric issues (e.g., reliability, validity) as well as appropriate usage and interpretation of instruments commonly used to assess personality, mood, and psychopathology. The course involves the practical application and interpretation of psychological assessments. **Prerequisite:** Graduate standing in Psychological & Brain Sciences.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 8160 Applied Multivariate Analysis

The purpose of this course is to provide students with a working knowledge of multivariate statistics including multivariate multiple regression, multivariate analysis of variance, discriminant analysis, factor analysis, and canonical correlation analysis. **PREREQUISITE,** PSYCH 5066 and 5067 or their equivalent.

Credit 3 units.

Typical periods offered: Fall

PSYCH 8165 Applied Longitudinal Data Analysis

This course covers modern methods of handling longitudinal, repeated measures. It will introduce the rationale of measuring change and stability over time to study phenomena as well as how within-person designs can increase statistical power and precision as compared with more traditional designs. Most the course will use multi-level models and latent (growth) curve models to specify patterns of change across time. Additional topics include visualization, measurement invariance, time-to-event models and power. **Prerequisite:** Familiarity with R and with MLM and/or structural equation models.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 8167 Applied Bayesian Statistics for Psychologists

Bayesian parameter estimation and hypothesis testing offer a useful alternative to the classic frequentist paradigm within psychological science. This class will cover the foundations of Bayesian inference and hypothesis testing with the primary emphasis on fitting multiple regression and multi-level models common within psychology. A variety of response distributions will be discussed: Gaussian, binary and count, ordinal, survival, probability, and zero-inflated models, among others. Topics include: model calibration, regularization, prior and posterior predictions, Bayes factors, missing data, Bayesian power, cross-validation, Bayesian meta-analysis, distributional models, and multivariate response models. Models will be fit using the R package brms, which relies on the more general Stan language.

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 8245 Graduate Research Seminar

This course consists of weekly seminars on different topics of research in psychological science. Students are expected to participate through attendance, questions, and occasional presentation of their own research. Credit for this course is restricted to graduate students in the department of Psychological & Brain Sciences. **Prerequisite:** Graduate standing in Psychological & Brain Sciences.

Credit 1 unit.

Typical periods offered: Fall, Spring

PSYCH 8352 Theories of Personality Psychology

This course is intended to provide a comprehensive review of major theories in personality psychology. Across the semester, students will be introduced to historical and contemporary theories in personality science, capturing four major research areas: definitions of personality, personality trait taxonomies, personality development across the lifespan, and goals and motives. Each week, students will be assigned chapters from the Handbook of Personality that provide broad overviews of the topic, in addition to empirical papers related to the week's topic. Students will be expected to engage in and lead class discussions, as well as complete a semester-long paper project that will entail applying the theoretical frameworks mentioned in class to the student's personal research area. **PREREQ:** Graduate Standing

Credit 3 units.

Typical periods offered: Fall, Spring

PSYCH 8370 Advanced Psychopathology

This is an advanced course in psychopathology, or the scientific study of mental disorders. It will focus on conceptual foundations for the study and treatment of major mental disorders as well as the methodological and clinical issues that follow from their consideration. The overall goal of the course is to promote critical thinking and to foster the development of clinical scientists who will discover new knowledge regarding psychopathology. The course is composed of five sections that are concerned with: (1) the history or psychopathology and training in psychological clinical science, (2) causal models regarding the development of mental disorders, (3) the definition and classification of mental disorders, (4) epidemiology (including considerations regarding culture and gender), (5) descriptive psychopathology (i.e., the phenomenology of perception and cognition, emotion, volition, and personality). **Prerequisite:** Open only to doctoral students in clinical psychology or by permission of instructor.

Credit 3 units.

Typical periods offered: Spring

PSYCH 8373 Neural Systems of Behavior and Psychopathology

This course provides students with a working knowledge of our rapidly evolving understanding of the brain circuits that create order in our social, emotional and cognitive worlds and how disorder within these circuits is associated with a broad range of psychopathology, including depression, anxiety, phobias, PTSD, OCD, addiction, autism, schizophrenia, psychopathy and violence. **Prerequisite:** Graduate standing in Psychological & Brain Sciences. This course is the graduate level equivalent of 4765: Inside the Disordered Brain.

Credit 3 units.

Typical periods offered: Spring

PSYCH 8405 Seminar in Research Ethics

This is an in-depth review and discussion of common ethical concerns encountered in research, including the use of human and animal participants; informed consent; the Belmont report; the role of the Institutional Review Board; protection of special populations; deception in research; duty to refer; various forms of conflict of interest; issues of data ownership and sharing; bias and fraud in data



collection, analysis, and reporting; conflicts surrounding authorship; concerns about duplicate or fragmented publication; understanding and preventing plagiarism; and the reporting of the misconduct of others. Prerequisite: Graduate standing in Psychological & Brain Sciences.

Credit 1 unit.

Typical periods offered: Fall

PSYCH 8440 Empirically Supported Treatment in the Clinic

Intro to emotional disorders and their effective treatment in adults. This course combines didactic materials, practice sessions in class, and examples from supervision of some members of the class. The student will learn to assess and treat common problems in the outpatient clinic with empirically supported procedures, understand the theories behind these procedures, and be exposed to the process of applying the procedures in the clinic. PREREQ: Graduate standing in Psychological & Brain Sciences; completion of an introductory course in psychotherapy or permission of instructor.

Credit 3 units.

Typical periods offered: Fall

Psychological & Brain Sciences, PhD

Phone: 314-935-6520

Website: <https://psych.wustl.edu/graduate-program>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

In order to advance to PhD candidacy within the Psychological & Brain Sciences PhD program, students must complete two years of the program and meet the following requirements:

- Have two successful end-of-year portfolio reviews (end of the first and second years) and demonstrate evidence of positive evaluations from their mentor (end of first semester, first year, and second year);
- Have successfully completed the master's research project; and
- Have a successful review by the Area faculty following the completion of the master's project.

Once the student has met these criteria, a formal notice of admission to candidacy for the PhD will be entered into their file and sent to the Office of Graduate Studies, and the milestone "Qualifying Exam Passed" will be added to their student record. Students who fail to meet these criteria will be asked to leave the program. It should be noted that, even after being admitted to candidacy for the PhD, the student must still pass their Subject Matter Exam successfully to move on to the dissertation proposal stage.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** 5 years
 - The PhD in Psychological & Brain Sciences is a 5 year program. Students in the Clinical Science area will complete an additional year of clinical internship for a total of 6 years to complete the degree.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in ASGS 9000 Full-Time Graduate Research/Study, a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students must maintain a GPA of 3.0 or higher to be in good academic standing

PhD in Psychological & Brain Sciences

The following is a brief listing of the requirements for the PhD in Psychological & Brain Sciences. A more detailed description of these requirements may be found in our Graduate Student Handbook (PDF). Students in the clinical science training program have somewhat different requirements; please refer to the Clinical Program Handbook (PDF) as well.

All students must do the following:

- Complete required graduate-level courses (courses must be completed for a student to be considered "all but dissertation"). A typical semester course load for the first two years is 8 to 11 units. Full-time status is at least 9 units of coursework or 0 to 8 units plus the enrollment in ASGS 9000 Full-Time Graduate Research/Study.
- Meet the Mentored Teaching Experience requirement that all students must meet, the details of which are outlined in our Graduate Student Handbook and under the Mentored Experience Implementation Plan tab (p. 430) of this page.
- Attend a 1-credit (one hour per week) seminar on research ethics. This seminar typically happens during the fall semester of a student's first or second year in the program.
- Attend at least five professional development workshops over the course of the program.

- Complete a qualifying research project during the first two years of graduate study. This project is often referred to as the *master's thesis*.
- Pass a subject matter examination. This examination must be passed before work on the dissertation can begin.
- Complete a dissertation project and defend it in an oral examination. The research requirements for the PhD are described in more detail in our Graduate Student Handbook.

Required Courses

Students are required to take a minimum of 36 units to earn the degree. Required courses make up 10 units, Distribution Requirements make up 9 units, and the remaining 17 units will consist of units earned by enrolling in the department seminar series (PSYCH 5245) and colloquium series (PSYCH 5999), taking additional distribution courses, or taking other elective courses that support the student's research and career goals. (e.g., PSYCH 5910 Research in Psychology, PSYCH 5920 Research in Psychology). Students must maintain a cumulative GPA of 3.0 or higher.

Code	Title	Units
PSYCH 8066	Quantitative Methods I	3
PSYCH 8067	Quantitative Methods II	3
PSYCH 8011	Research Designs and Methods	3
PSYCH 8405	Seminar in Research Ethics	1

Distribution Requirements

Students must take one course from three of the following seven distribution areas.

Note to Clinical Science Students: Please consult the Clinical Science Program Handbook for more specific guidelines regarding which courses should be used to fulfill distribution areas for the clinical science program.

Social and Personality Psychology

Code	Title	Units
PSYCH 5030	Seminar: Experimental Social Psychology	3
PSYCH 5227	The Science of Close Relationships	3
PSYCH 5322	Purpose And Identity Development Across The Lifespan	3
PSYCH 5427	Social Gerontology	3
PSYCH 5921	Seminar: Theories of Social Psychology	3
PSYCH 5991	Social Cognition	3
PSYCH 8352	Theories of Personality Psychology	3

Abnormal Psychology and Affective Neuroscience

Code	Title	Units
PSYCH 5454	Introduction to Affective Science	3
PSYCH 5765	Inside the Disordered Brain: Neural Systems of Behavior and Psychopathology	3
PSYCH 5958	Emotion Regulation	3
PSYCH 8370	Advanced Psychopathology	3

Biological-Neurological Bases of Behavior

Code	Title	Units
BBS 5651	Neural Systems	6
PSYCH 5765	Inside the Disordered Brain: Neural Systems of Behavior and Psychopathology	3
PSYCH 5831	Biological Foundations of Behavior	3

Cognitive, Learning, and Perception

Code	Title	Units
PSYCH 5085	Human Memory	3
PSYCH 5089	Cognitive Neuroscience of Memory	3
PSYCH 5183	Perception, Thought, and Action	3
PSYCH 5631	Introduction to Computational Cognitive Science	3
PSYCH 5665	The Science of Behavior	3
PSYCH 8087	Advanced Cognitive Psychology	3

Aging and Development

Code	Title	Units
PSYCH 5321	Advanced Developmental Psychology	3
PSYCH 5322	Purpose And Identity Development Across The Lifespan	3
PSYCH 5427	Social Gerontology	3
PSYCH 5591	The Development of Social Cognition	3
PSYCH 5883	Psychology of Aging	3

History of Psychology

Code	Title	Units
PSYCH 5651	History and Modern Systems of Psychology	3

Quantitative Knowledge

Code	Title	Units
PSYCH 5631	Introduction to Computational Cognitive Science	3
PSYCH 8012	Selected Topics in Design and Statistics	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8160	Applied Multivariate Analysis	3
PSYCH 8165	Applied Longitudinal Data Analysis	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching

Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All

members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.

2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate

Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

From the beginning of the graduate program in Psychological & Brain Sciences at Washington University students participate in research reflecting their area of specialization. That education will be guided by their research mentor and will take place within one or more of the research laboratories in the department or university. In the early stages of their study, students will work on a qualifying research project (master's thesis). Once the qualifying research project is completed (by the end of your second year) and the student has completed at least 36 units, including the required coursework (e.g., Statistics, Research Methods, Research Ethics, and the distribution classes), the student can receive a master's degree along the way to the PhD.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching and teaching preparation play a very important role in our discipline. Most individuals who obtain academic positions in Psychological and Brain Sciences are expected to be at least minimally effective teachers and to teach at least one — and typically more than one — undergraduate class. In addition, many individuals in Psychological & Brain Sciences will obtain positions in institutions with graduate programs and will thus be expected to participate effectively in mentoring and teaching graduate students. Further, being able to communicate effectively to audiences with either similar knowledge or less knowledge than one has about one's field is essential to being

a successful scientist in Psychological & Brain Sciences. As such, core preparation in pedagogical skills combined with some practical experience in this arena are considered critical elements of graduate education.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Two Preparatory Engagements are required:

1. Center for Teaching and Learning Orientation in August prior to the first semester in which a student completes a Mentored Teaching Engagement (MTE) as an Assistant in Instruction (AI).
2. Completion of a pedagogical teaching workshop entitled Teaching of Psychology Workshop as a practical learning activity prior to 1st semester in which a student completes an MTE as an AI. This workshop covers a wide range of topics relevant for being an effective teacher and includes the requirement to prepare, present, and receive detailed feedback on two lectures from the course instructor as well as to prepare a teaching philosophy statement.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

All students are required to complete 40 MER units as an AI with no more than 10 MER units per semester. This corresponds to four courses total at an average of 10 hours/per week per course. Psychological and Brain Sciences will consider students' preferences regarding which semesters they would like to be an AI and for which courses they would like to be an AI; however, in some cases departmental instructional needs may result in students being an AI during a non-preferred semester or in a non-preferred course.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students who have yet to complete any MTEs as of Fall 2026 are required to complete 40 MTE units as an AI with no more than 10 MTE units per semester. This corresponds to four courses total at an average of 10 hours/per week of assistance per course. Typically, students will complete these MTE units during their 2nd and 3rd years in the program.

ASGS 8010	Take four times

Quantitative Data Analysis, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** Varies
 - Students will be awarded the certificate at the time of completion of their PhD. Therefore, time to completion varies based on the length of their program.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** 2.7, Students must earn a B– or higher in each course for it to count toward the certificate.

Required Courses

The goal of the certificate is to ensure that students have a solid basis in probability and statistics, inference, and quantitative research design as well as some depth of experience in a more advanced topic area. As such, students completing the certificate are required to take at least five courses, the categories of which are shown below. Some courses appear in more than one area, but a course can only be used to fill one of the requirements. In consultation with the certificate advisor, students may substitute equivalent courses or more demanding mathematical treatments of the same course material.

Students must earn at B– or higher in each course for it to count toward the certificate. For programming prerequisites, visit our Quantitative Data Analysis website.

Core Area Courses

Students must choose at least one course from each area:

Probability and Statistics

Code	Title	Units
ANTHRO 5365	Seminar: Problems in Applied Data Analysis	3
BSDC 8005	Applied Linear Regression Analysis	3
ECON 5830	Mathematical Economics	1
ECON 8710	Quantitative Methods I	3
ECON 8111	Quantitative Methods in Economics II	3
PHRS 6001	Applied Linear Modeling (ALM)	3
POLSCI 5690	Quantitative Political Methodology I	3
POLSCI 5695	Quantitative Political Methodology II	3
PSYCH 8066	Quantitative Methods I	3
PSYCH 8067	Quantitative Methods II	3
SDS 5010	Probability	3
SDS 5020	Mathematical Statistics	3
SDS 5130	Linear Statistical Models	3
SDS 5212	Statistics for Data Science I	3
SDS 5521	Advanced Linear Models I	3
SDS 5522	Advanced Linear Models II	3
SOC 5030	Quantitative Methods I	3
SOC 5031	Quantitative Methods II	3

Inference and Quantitative Research Design

Code	Title	Units
EDUC 5600	Foundations of Educational Research	3
POLSCI 5063	Causal Inference	3
POLSCI 5094	Mathematical Modeling in Political Science	3
PSYCH 8011	Research Designs and Methods	3
SOC 5052	Research Design	3
SDS 5111	Experimental Design	3

Focus Area Courses

Students must choose at least two courses from one of these three areas:

Longitudinal and Time-Series Data Analysis

Code	Title	Units
BSDC 8008	Structural Equation Modeling	3
BSDC 8010	Multilevel and Longitudinal Modeling	3
BSDC 8011	Propensity Score Analysis	3
MSB 5565	Survival Analysis	3
POLSCI 5725	Multilevel Models in Quantitative Research	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8165	Applied Longitudinal Data Analysis	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3
SDS 5120	Survival Analysis	3
SDS 5155	Time Series Analysis	3
SDS 5310	Bayesian Statistics	3

Multivariate and Machine Learning Analysis

Code	Title	Units
BSDC 8008	Structural Equation Modeling	3
CSE 5104	Data Mining	3
CSE 5107	Machine Learning	3
MATH 3420	Graph Theory	3
MATH 4493	Topics in Graph Theory	3
PSYCH 8012	Selected Topics in Design and Statistics	3
PSYCH 8160	Applied Multivariate Analysis	3
SDS 5430	Statistical Learning	3
SDS 5480	Topics in Statistics	3



Data Mining and Specialized Research Tools

Code	Title	Units
BSDC 8008	Structural Equation Modeling	3
BSDC 8011	Propensity Score Analysis	3
CSE 5104	Data Mining	3
CSE 5107	Machine Learning	3
ECON 8110	Applied Econometrics	3
MSB 5520	Introduction to Bioinformatics	3
PSYCH 5631	Introduction to Computational Cognitive Science	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3
SDS 5310	Bayesian Statistics	3
SWPM 6076	Foundations of Geographic Information Systems (GIS) for the Applied Social Sciences	3

The fifth course can be from any of the three focus areas, or it can be a second course from the Probability and Statistics group.

Phone: 314-935-6520

Website: <https://psych.wustl.edu/graduate-program>

Romance Languages and Literatures

The Department of Romance Languages and Literatures offers **PhD programs in French and Francophone Studies (p. 449)** and in **Hispanic Studies (p. 458)**, preparing students for careers in university teaching and research as well as for diverse career options in areas that include higher education administration, libraries and special collections, and humanities and arts organizations. With our faculty's wide-ranging expertise, graduate students have opportunities to specialize in many areas of French, Francophone, Latin American, and Iberian cultures. We offer a broad range of study from medieval through contemporary, with opportunities to concentrate in a variety of different areas that reflect the areas of expertise of our faculty, including migrations and communities; popular literacy and cultural memory; early modern and modern cultural production; the intersections of literature, art, and the sciences; modernities and postmodernities; visual cultures and performance; and linguistics and language learning. The department also offers the **Graduate Certificate in Language Instruction (p. 466)**, which is open to PhD students in other disciplines as well as to those in the department's own graduate programs.

Contact Information

- PhD program in French and Francophone Studies
- PhD program in Hispanic Studies
- Language Instruction, Graduate Certificate

For information about the combined degrees — the PhD in French and Francophone Studies and Comparative Literature and the PhD in Hispanic Studies & Comparative Literature — consult the Comparative Literature and Thought program (p. 159) page of this *Bulletin*.

Phone: 314-935-5175

Email: rl@wustl.edu

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Chair

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PhD, Rutgers University

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PhD, Princeton University

Julie E. Singer

Professor of French
PhD, Duke University

Directors of Undergraduate Studies

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Senior Lecturer in Italian
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Harriet A. Stone

Professor Emerita

PhD, Brown University

Akiko Tsuchiya

Professor Emerita

PhD, Cornell University

Colette H. Winn

Professor Emerita

PhD, University of Missouri-Columbia

Degree Requirements

- French and Francophone Studies, PhD (p. 449)
- French and Francophone Studies and Comparative Literature, PhD (p. 453)
- Hispanic Studies, PhD (p. 458)
- Hispanic Studies and Comparative Literature, PhD (p. 462)
- Language Instruction, Graduate Certificate (p. 466)

Courses

Courses include the following:

- French (p. 435)
- Italian (p. 438)
- Spanish (p. 438)

French

FRENCH 5000 Intensive Translation for Graduate Students I

The first part of a two-semester course sequence in reading and translating French. For graduate students in the humanities, social and natural sciences. Must be followed by French 5001.

Credit 3 units.

Typical periods offered: Summer

FRENCH 5001 Intensive Translation for Graduate Students II

Continuation of French 5000. For graduate students in the humanities, social and natural sciences. Prereq: French 5000. Credit for French 5000 is contingent on completion of French 5001.

Credit 3 units.

Typical periods offered: Summer

FRENCH 5010 Seminar in the Teaching of Romance Languages

A practical and theoretical introduction to teaching second languages. The theoretical component incorporates historical and contemporary theories of language pedagogy. The practical component focuses on developing a teaching persona, a relationship with students, and classroom organization and presentation skills. It offers approaches to communicative language teaching and to teaching culture and literature. It suggests varied instructional materials and use of multimedia. Students have an opportunity to teach with supervision, observation, and follow-up conferences. Open to teaching assistants in the Romance Languages, for whom this is a required course; open to other teaching assistants by permission of instructor.

Credit 3 units.

Typical periods offered: Fall

FRENCH 5020 Second Language Acquisition and Pedagogy:**Integrating Technology Into Language Instruction**

This seminar will transform knowledge about second language acquisition and pedagogy into practice while focusing on technology. The course fosters professional development as participants formulate critical skills for assessing, creating and integrating technology into the classroom. Course formats include readings, discussion, demonstrations and hands-on sessions with technologies. Students accepted into the certificate program in Advanced Language Instruction can enroll whenever it suits their course planning, but non-certificate students need to take it after completing all Ph.D. courses. Students with questions regarding eligibility should consult with the professor.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5030 Introduction to Graduate Study in French

This course will serve as an introduction to graduate study in French.

Credit 3 units.

Typical periods offered: Fall, Spring, Summer

FRENCH 5040 Literary Theory

Taught in English. After a brief review of some of the most important moments and figures in the history of aesthetic theory from Antiquity to the present, this course will focus on the development and expansion of literary theory and critical methodologies in the 20th century. We begin with an examination of the linguistic innovations of Saussure and their utilization in Russian formalism, phenomenology and structuralism. We will then examine many different forms of poststructuralist and postcolonial thought, treating in detail important areas of theoretical activity in gender/queer studies, New Historicism, and other contemporary approaches to texts and culture. The primary goal of the course is to make students critically aware of and professionally comfortable with the rich diversity and usefulness of a wide range of contemporary literary theories. Required for all graduate students in French.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5070 Classical Identities: The Power of Word and Image

We will study a variety of texts and images that show how seventeenth-century France not only documented its own glory but also its power to invent and control identities. IDENTITIES here refers both to the reputation of individuals at court, including most prominently the king himself, and to the characteristics of things in the world as they are depicted by literary authors, artists, and scientists. What writers and artists have in common is that the apparent realism of their descriptions cannot entirely conceal the very spectacular performance of courtly ambition, the play of appearances and fabricated identities that shapes the classical world. We will examine

how the reality presented in texts and images is as much a product of a cultivated fiction as the unearthing of facts. Texts to include fairy tales by d'Aulnoy and Perrault; Corneille, MEDEE and L'ILLUSION COMIQUE; Molière, LE MALADE IMAGINAIRE; Racine, BRITANNICUS; Lafayette, LA PRINCESSE DE CLEVES; entries in Furetière's DICTIONNAIRE UNIVERSEL, and the autobiographical testimony of scientists like Descartes who write to defend their discoveries and inventions. Images to include portraits, as well as almanacs (calendars decorated with commemorative images), and maps.

Credit 3 units.

Typical periods offered: Fall

FRENCH 5080 Administrative Internship for Ph.D. Students

Students in the Ph.D. program in French, nominated by faculty, may work in a rotating internship in academic administration. The internship will comprise three consecutive assignments over two semesters, with each assignment lasting three months: one in Romance Languages and two in different branches of the university's administration. This internship will carry three graded credits, which may not substitute for any seminar, but will count toward the total required for the degree. This program will be open only to students nominated by faculty, as consistent with departmental and student needs. Students will gather a portfolio of work produced in this time, as well as an administrative resume, in order to receive academic credit at the end of the last assignment. Alternatively, they will write a paper on some topic related to the assignment completed within our department. The internships will not be paid, and students will ordinarily work approximately ten hours per week in their assignments. Faculty approval required.; consult the DGS.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5110 Intensive Writing in French: Timely Topics

Grad Level Ident for L34 411

Credit 3 units. A&S IQ: LCD, LS, WI EN: H

Typical periods offered: Fall

FRENCH 5131 Advanced French and Translation

This course fosters an in-depth knowledge of the French language and accuracy in its use. It employs a comparative approach (linguistic and cultural) initiating students into the art of translation from English to French and from French to English and sensitizing them to the problem of cultural transfer. Students will acquire practical training, cultivating skills advantageous in the workplace by drawing on a wide variety of documents to develop translation strategies. Genres include fiction, autobiography, journalism, advertising, and correspondence spanning different eras, regions, and registers.

Credit 3 units. A&S IQ: LCD, LS, WI EN: H

FRENCH 5180 Dissertation

This course is for students working on dissertations.

Credit 12 units.

Typical periods offered: Fall, Spring, Summer

FRENCH 5192 Dark Humor: Francophone Literature From West Africa

In 1960, most of the French colonies in Africa gained independence in a largely peaceful transfer of power. Since then, this development has been viewed alternatively as the triumph of self-determination, and as a hollow act undermined by neo-colonial French ministries, multinational companies, and corrupt governments. Media today commonly adopt a highly pessimistic tone when speaking of these phenomena, but literature from West Africa provides alternative ways of looking at the region, which today includes over 140 million French speakers. Reading authors such as Kourouma, Kane, Tansi,

Tchicaya, and Lopes, we will consider the ways that literature enters into dialogue with political discourses represented both as tragedy and as farce. The main seminar (section 01) is taught in English; undergraduates also register for a weekly discussion (section A) conducted in French. Prereq: for undergraduates, Fr 325, 326, Thinking-It-Through, or In-Depth; for graduates not in French, reading knowledge of the language.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5220 Topics II

Focusing on topics of cultural and social importance, this course offer students the opportunity to learn about defining moments in the French tradition. The specific topic of the course will vary from semester to semester, and may include works from different disciplines, such as art, film, gender studies, history, literature, music, philosophy, politics, science. Prereq: Fr 307D.

Credit 3 units.

Typical periods offered: Fall, Spring

FRENCH 5270 Literature of the 17th Century I

UNDERGRADUATES ONLY REGISTER FOR THIS SECTION Prereq: Fr 325, 326, Thinking-It-Through, or In-Depth or one of these courses and the equivalent WU transfer literature course from Toulouse or Paris. One-hour preceptorial required for undergraduates.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

Typical periods offered: Fall

FRENCH 5310 Problems in 16th-Century Literature

An advanced survey of poetic movements of the sixteenth century with special emphasis on representations of the erotic and the ailing body and the literary traditions associated with them, notably Petrarchism and the late sixteenth-century devotional tradition. Various poetic forms will be examined: RONDEAUX, CHANSONS, sonnets, elegies, etc. Readings will include works by Marot, Sceve, Labe, Ronsard, Coignard, Sponde and Chassignet.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5320 Literature of the 18th Century II

Prereq: Fr 325, 326, Thinking-It-Through, or In-Depth.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Spring

FRENCH 5443 Contemporary Francophone Literature: Disordering Race and Gender in the Caribbean

A general survey of Francophone literature. This seminar examines representative texts of Quebec, Acadia, Africa, and West Indies. Authors to include Antonine Maillet, Louis Hémon, Michel Tremblay, Gérard Leblanc, Anne Hébert, Maryse Condé, along with the influential poets of négritude, Senghor and Césaire. This course counts towards the seminar requirement for the major.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FRENCH 5447 The Medieval Literary Arts: Reconstructing Notre Dame

How do medieval French writers understand the structures and functions of the human body? What kinds of bodies are considered disabled? Are womanhood, childhood, and old age construed as disabilities? In this course we will read texts of varied genre--farces, saints' lives, fabliaux, poems, romances, journals and chronicles--as we consider how, if at all, disability exists as a social or literary construct in the Middle Ages. Texts include Philippe de Beaumanoir's MANEKINE,

Courtebarbe's *TROIS AVEUGLES DE COMPIÈGNE*, Guillaume de Machaut's *VOIR DIT*, and the farce *LE GARÇON ET L'AVEUGLE*; excerpts from Jean de Meun's *ROMAN DE LA ROSE*, from the *OVIDE MORALISÉ* and from Christine de Pizan's *MUTACION DE FORTUNE*; and poems by Rutebeuf, Deschamps, and Molinet, as well as critical and theoretical texts from the emerging discipline of disability studies. Texts will be available in modern French; no prior study of Old French language is necessary. This course counts towards the seminar requirement for the major. Prereq: Fr 325 or Fr 326 or one of these courses and the equivalent WU transfer literature course from Toulouse or Paris. One-hour preceptorial for undergraduates.

Credit 3 units. A&S IQ: HUM, LCD Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FRENCH 5459 Writing North Africa: Francophone Literature of the Maghreb

With statues of colonizers coming down around the world, France reckons with its colonial legacy in North Africa. Ever since their conquest of Algiers in 1830, the French have been fascinated by writing from across the Mediterranean. Beginning with nineteenth-century French travel narratives about Algeria, the colonial era defined ideas of the exotic. As Algeria, Morocco, and Tunisia gained independence from France in the mid-twentieth century, North African authors often wrote their own literature in the language of their former colonizer. These authors and their contemporary descendants continue to create and challenge the ideas of postcolonial francophone literature today. The main seminar sessions are taught in English, with additional required weekly undergraduate discussions (section A) in French. Prerequisites: for undergraduates, French 325 or 326, Thinking-It-Through, or In-Depth; for graduates not in French, reading knowledge of the language.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Fall

FRENCH 5468 Topics in French Literature

How do medieval and Renaissance writers understand the structures and functions of the human body? What kinds of bodies are considered disabled? Are womanhood, childhood, and old age construed as disabilities? In this course we will read texts of varied genre--farces, saints' lives, short comic tales, poems, romances, journals, essays, and chronicles--as we consider how, if at all, disability exists as a social or literary construct in the Middle Ages and Renaissance. We will also read critical and theoretical texts from the discipline of disability studies, interrogating the applicability of this largely modern-focused approach to premodern societies. Course taught in French. Texts will be available in modern French; no prior study of the Middle Ages or of Old French language is necessary. Prerequisites: French 325, 326, Thinking-It-Through, or In-Depth. This course counts towards the French for Medical Professionals track. One-hour preceptorial required for undergraduates.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

Typical periods offered: Spring

FRENCH 5501 Topics in French Culture: Zombies, Vampires, and Spirits in the Francophone Caribbean

Before horror movies, television series, and graphic novels, zombies were part of a tradition of Caribbean folklore. The figure of the zombie finds its roots in colonial Haiti where enslaved Africans found meaning in a mythical figure who no longer possessed its own body but belonged to others, instead. Spirits, magic, and sorcery are also indelible parts of the same folk traditions to which the zombie belongs in Guadeloupe, Haiti, and Martinique. This course will expose students to the cultural histories of zombies, vampires, spirits and spiritual practice in the French Caribbean through film, literature, and contemporary Caribbean art. We will pay particular attention to

how these figures and histories work to undo and question legacies of colonialism, racial capitalism, sexism, homophobia, and everyday political violence. This course satisfies the In-Depth requirement.

Prereq: In-Perspective.

Credit 3 units. BU: IS

Typical periods offered: Fall

FRENCH 5510 Problems in 18th-Century Literature

This course will trace the development of the novel through the eighteenth century, focusing on narrative techniques of the Enlightenment. Among our concerns will be the question of "realism" as we examine the memoir, epistolary and dialogic forms. We will also explore the novel as cultural artifact, philosophical treatise and utopian critique. Critical essays will accompany our readings of authors such as Prévost, Marivaux, Rousseau, Diderot, Charrière, and Sade.

Credit 3 units.

Typical periods offered: Fall

FRENCH 5610 Topics in French Literature and History:

How genre affects both the production of a given literary text and its perception by the reader. Representative texts from different centuries and movements. Prereq: Fr 325C and 326C (or, for students who have completed the Paris Business Program, completion of either course). One-hour preceptorial for undergraduates only.

Credit 3 units.

Typical periods offered: Fall

FRENCH 5650 Medieval France at the End of the World

Students of the European Middle Ages are used to thinking of France and the French language as having been central to medieval history and culture. Yet France was also, in many ways, peripheral: situated at the far end of global trade networks and near the edge of the era's world maps. In this seminar we will explore ways that medieval French and Francophone people understood their situation in the wider world, and particularly, the tensions between center and periphery that manifest in these representations. In tandem with our study of medieval French perspectives on France's place in the world, we will engage with recent scholarship in global history and literature to flesh out our understanding of the medieval African and Asian economic and cultural networks to which Northwestern Europe was peripheral.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5703 In-Depth: Paris, Capitol of Modernity: A Digital Nineteenth Century

This course will be an in-depth study of Paris as the capitol of modernity: a digital nineteenth century.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM, IS EN: H

Typical periods offered: Fall

FRENCH 5704 In-Depth: France and the Muslim World

France today has more Muslim citizens than any other country in Europe, and this fact puts the country's relationship with Muslims, both within and beyond its borders, constantly in the news. Starting with Napoleon's invasion of Egypt, we will examine the wide involvement of France in the affairs of Muslim countries: its presence in Egypt and Lebanon, and most notably its colonization of Morocco, Algeria, and Tunisia, which had an irreversible effect on French culture today. We will also consider the anthropology and cultural productions (literature, film, and art) of French people of Muslim origin. Given the influence of francophone Muslim religious scholars, we can not only speak of France and the Muslim world, but investigate France in the Muslim world. What futures become imaginable, when we see

Muslims as an integral part of French culture, and France as part of the global Muslim community? Assignments will include writing for non-academic audiences, and the creation of a StoryMap presentation in ArcGIS. Prereq: In-Perspective or Fr 308.

Credit 3 units. A&S IQ: HUM, LCD BU: HUM EN: H

Typical periods offered: Fall

FRENCH 5710 Problems in the 20th-Century Novel

This course will cover problems in 20th-century literature.

Credit 3 units.

Typical periods offered: Spring

FRENCH 5711 Mourning in Haitian Culture

Grad level ident fo L34 4711

Credit 3 units.

Typical periods offered: Fall

FRENCH 5720 Seminar in 20th-Century Literature

This course will be a seminar in 20th-century literature.

Credit 3 units.

Typical periods offered: Fall

FRENCH 5810 Problems in Medieval Literature

This course will cover problems in medieval literature.

Credit 3 units.

Typical periods offered: Fall

FRENCH 5999 Independent Study

Prereq: senior or graduate standing, and permission of the Chair of the Department.

Credit 6 units.

Typical periods offered: Fall, Spring

FRENCH 6000 Masters Continuing Student Status

This course is for masters continuing students.

Credit 0 units.

Typical periods offered: Fall

FRENCH 6010 Masters Nonresident

This course is for nonresident masters students.

Credit 0 units.

Typical periods offered: Fall

FRENCH 6020 Masters Resident

This course is for resident masters students.

Credit 0 units.

Typical periods offered: Fall

FRENCH 8000 Doctoral Continuing Student Status

This course is for doctoral continuing students.

Credit 0 units.

Typical periods offered: Fall, Spring, Summer

FRENCH 8010 Doctoral Nonresident

This course is for nonresident doctoral students.

Credit 0 units.

Typical periods offered: Fall

FRENCH 8020 Doctoral Resident

This course is for resident doctoral students.

Credit 0 units.

Typical periods offered: Fall

Italian

ITAL 5000 Independent Study

Special studies chosen and arranged with the instructor.

Credit 6 units.

Typical periods offered: Fall, Spring

Spanish

SPAN 5000 Intensive Translation for Graduate Students I

Designed to help graduate students in the humanities, social and natural sciences fulfill their Ph.D. language requirement, this is an intensive three weeks first part of a two-semester course sequence in reading and translating Spanish. No Spanish background required. Must be followed by Spanish 5001.

Credit 3 units.

Typical periods offered: Summer

SPAN 5001 Intensive Translation for Graduate Students II

Designed to help graduate students in the humanities and natural sciences fulfill their Ph.D. language requirement, this is the second part of a two-semester course sequence in reading and translating Spanish. No Spanish background required. Credit for Span 5000 is contingent on completion of Span 5001.

Credit 3 units.

Typical periods offered: Summer

SPAN 5010 Seminar in Teaching of Romance Languages

A practical and theoretical introduction to teaching second languages. The theoretical component incorporates historical and contemporary theories of language pedagogy. The practical component focuses on developing a teaching persona, a relationship with students, and classroom organization and presentation skills. It offers approaches to communicative language teaching and to teaching culture and literature. It suggests varied instructional materials and use of multimedia. Students have an opportunity to teach with supervision, observation, and follow-up conferences. Open to teaching assistants in the Romance Languages, for whom this is a required course; open to other teaching assistants by permission of instructor.

Credit 3 units.

SPAN 5011 Cultural Theory

The course focuses on the main topics, authors, works and debates that constitute the corpus of cultural theory in the Hispanic world, particularly in Latin America. After a brief introduction to the connections between Latin American cultural criticism and European critical theory, class discussions will concentrate on the most important interdisciplinary problems and categories that have organized the field since the second half of the XXth-century. The purpose of the course is, then, twofold: first, it attempts to familiarize students with the main critical and theoretical debates in the study of symbolic production. Secondly, it offers a critical approach to the contributions of the main intellectuals and academics working on

the analysis of cultural topics. Some of the authors to be analyzed are, among others, Antonio Cornejo Polar, Angel Rama, Silviano Santiago, Roberto Schwarz, Martín Oppenheim, Beatriz Sarlo, Nelly Richard, Jesús Martín-Barbero, Néstor García Canclini, Renato Ortiz, George Yúdice, Hugo Achugar, Bolívar Echeverría, Silvia Rivera Cusicanqui, Enrique Dussel, and Carlos Monsiváis. The interdisciplinary nature of this course will incorporate perspectives from history, communications, literary studies, social sciences, and philosophy. Graduate Standing. In Spanish.

Credit 3 units.

Typical periods offered: Fall

SPAN 5012 Advanced Pedagogy Seminar: Integrating Technology Into Language Instruction

Seminar offers professional development in language pedagogy with a focus on enhancing the teaching of the four skills (listening, speaking, reading, writing) and culture through technology. Participants will develop critical skills for assessing, creating, and integrating multimedia courseware into the language classroom. Course formats include readings, discussion, demonstrations, and hands-on sessions with multimedia technologies (e.g., software, WWW, CD-ROM, video). Open to ADVANCED GRADUATE STUDENTS IN ALL LANGUAGE DEPARTMENTS WHO HAVE COMPLETED THEIR REQUIRED CLASSES. Students with questions regarding eligibility should consult with the instructors. Grading: Credit/No Credit.

Credit 3 units.

SPAN 5013 Second Language Acquisition and Pedagogy: Integrating Technology Into Language Instruction

This seminar will transform knowledge about second language acquisition and pedagogy into practice while focusing on technology. The course fosters professional development as participants formulate critical skills for assessing, creating and integrating technology into the classroom. Course formats include readings, discussion, demonstrations and hands-on sessions with technologies. Students accepted into the certificate program in Advanced Language Instruction can enroll whenever it suits their course planning, but non-certificate students need to take it after completing all Ph.D. courses. Students with questions regarding eligibility should consult with the professor.

Credit 3 units.

SPAN 5021 Contemporary Spanish Language Teaching

This course is a practical and theoretical introduction to teaching Spanish as a second language. The theoretical component of the course incorporates historical and contemporary theories of second language acquisition (SLA) and instruction, including major contemporary notions about SLA, communicative language teaching, and individual difference in language learning. The practical component of the course focuses on professional development as an instructor, roles of instructor and student, teaching Spanish as a heritage language, and day-to-day classroom activities with emphasis on communicative and task-based instruction. Students create a variety of teaching activities, teach with supervision and observation, and take part in follow-up conferences. The course also involves preparing written lesson plans, audiotaping, and self-evaluation. Each student in the course prepares a teaching portfolio, which includes a teaching philosophy statement, different types of classroom activities, and an exam section on grammar.

Credit 3 units.

Typical periods offered: Fall

SPAN 5030 Introduction to Graduate Study in Spanish

An introduction to the skills required for advanced study in Spanish literature. Major concentration is on critical methods, approaches, and schools, with an important secondary emphasis on bibliography and research methods. Required of all M.A. and Ph.D. candidates entering the program. Prereq. Graduate standing.

Credit 3 units.

SPAN 5031 Global Hispanic Studies

This graduate seminar provides a critical overview of the field of Global Hispanic Studies as an essential area of research that explores cultural and literary production throughout the Hispanic world across traditional historical periods, and border-bound geopolitical and geographical areas. The course thus explores the various ways in which the field of Global Hispanic Studies today connects with closely related areas of scholarly inquiry, such as Transatlantic Studies, Transpacific Studies, Hemispheric Studies, Mediterranean Studies, Third World/Global South Studies, African Diaspora Studies, Migration Studies (including Exile), and World Literature. The seminar is structured into a series of different sub-sections that aims as a whole to frame the field of Global Hispanic Studies as an interdisciplinary and transnational area of scholarship and research. This format combines the analysis of important critical and theoretical readings (by authors such as Adam Lifshey for Transpacific Studies, Boaventura de Sousa Santos for the Global South, or Pascale Casanova for World Literature), with the close reading of a series of primary texts central to the overall field of Global Hispanic Studies across different historical periods. Examples of these central works include literature of the Sephardic diaspora or written in Ladino, Transatlantic avant-garde poetics and networks (César Vallejo, Vicente Huidobro, Silvina Ocampo); Hemispheric Literature during the modernist period (José Martí, Gabriela Mistral), and the Cold War (Neruda, Ernesto Cardenal, Elena Garro); contemporary literature produced by various exiled, and immigrant or first-generation writers (Max Aub, Najat El Hachmi); cultural production related to the African Diaspora across time (cultural forms by Afro-descendant communities across Latin America, the poetry of Nicolás Guillén, and Raquel Ilonbé); or the work of Sor Juana Inés de la Cruz, Miguel de Cervantes, or Roberto Bolaño as World Literature. Graduate students only. In Spanish.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 5040 Intensive Guided Reading

Selected literary readings to be established individually. Course normally taken in the third semester of the M.A. program. Prerequisite, for students in the M.A. program.

Credit 3 units.

SPAN 5041 Media, Material, and Popular Cultures

This seminar introduces students to key conversations in the fields of media, material, and popular culture across the Hispanic World. We will take an interdisciplinary approach to explore how media shape culture and alter the material dimensions of cultural production, dissemination, and consumption, paying special attention to the historical formations of popular culture in rural and urban settings. We will study various print, aural and visual mediascapes and analyze the roles mediation (culture circuits), objects (books, speeches, sound or visual recordings), and practices (production and consumption) play in the formation of identity, community, and everyday experiences of nation, globalization, race, gender, and ethnicity. We will address key concepts, research questions, theories, and methodologies in the fields of media and cultural studies, critical theory, material culture, and popular culture, both in the Hispanic World and globally.

This course aims to collectively think about new ways of defining objects of study, connecting media and popular culture, and linking interdisciplinary methodologies to broader research questions across the humanities.

Credit 3 units.

Typical periods offered: Fall

SPAN 5050 Research Writing and Methodology Practicum

We all know that writing is a fundamental part of a professional academic career, but what exactly is research writing? How and where do you start? How do you do research? Where do you do research? How do you write up your research for different audiences? This course is designed to help you answer these questions and others related to the craft and practice of research writing from topic pitch to final draft. At the beginning of the semester you will define a research project which you will develop in different stages each week through various modes of scholarly writing (examples include book reviews, conference panel proposals, grant proposals, a final polished piece of scholarship). Sessions will function as writing workshops where you will engage component parts of your project. By the end of the course you will have a solid research writing portfolio and know better how to present it to different audiences.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 5051 Gender and Sexuality

This course will provide the conceptual and analytical frame for critically examining literary and cultural production in the Hispanic world from the perspective of gender and intersections with race, ethnicity, class, religion, nationality, and (dis)ability. The course will engage readings in theory, criticism, and historiography crucial to the scholarly investigation of gender and sexuality in the field of Hispanic studies. We will address how the consideration of gender has transformed literary and cultural analysis; in particular, the ways in which scholars of feminist and gender studies have challenged traditional assumptions about how knowledge and subjectivities are produced. The students will come out of the course having acquired: 1) a knowledge of fundamental concepts in feminist and gender studies; 2) an understanding of how feminist/gender studies scholars identify and frame research questions; 3) an introduction to the critical debates related to gender and sexuality; 4) a knowledge of feminist cultural history; 5) the ability to apply relevant concepts in feminist and gender studies to your own research in a historically-grounded fashion.

Credit 3 units.

Typical periods offered: Fall

SPAN 5060 Street Cultures of the Americas

Credit 3 units.

Typical periods offered: Spring

SPAN 5061 Race and Ethnicity: Race, Labor and Affect in Latinx Culture

Race, Labor, and Affect in Latinx Culture: In this seminar, we will familiarize ourselves with the trajectories, conceptualizations and challenges to Latinidades in the United States by considering the relationship between race, labor, and affect. We will explore the theoretical and political uses-and limits-of the category of Latinidad by considering aesthetic and affective expressions of Latinx lived experiences, focusing on the roles of labor in Latinx communities-migrant labor, domestic and care labor, etc. We will focus on how labor shapes the affective contours of Latinx experience in relation to race, gender, and sexualities and pay attention to affective articulations that transcend labor and derive from forms of racial joy and pleasure that resist labor as an imperative.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 5062 Cultural Approaches to Latinx Geographies

This graduate seminar invites students to explore key themes and methods in Latinx cultural studies from a geographical perspective. Focusing on how Latinx communities produce, contest, and navigate space, we will examine how these spatial practices are represented in literature, visual art, digital media and other forms of cultural production. Through a transnational and interdisciplinary approach, we will consider how hemispheric processes of colonization, imperial expansion, and forced migration have shaped Latinx placemaking practices. Centering the intersection of race, class, gender, and citizenship, students will analyze a wide range of Latinx geographies: from liminal Latinx spaces to key Latinx cities and everyday places. We will also study how ecological landscapes inform Latinx poetics and politics of space. Readings pair foundational texts in Latinx studies, race and ethnicity studies, and critical geography with contemporary cultural production and aesthetic practices.

Credit 3 units.

Typical periods offered: Spring

SPAN 5070 Body, Gender, and Power in Colonial Latin America

This class will study representations of the body in Colonial Latin American texts through the lens of sex and gender and the discourses of power that are scripted upon it. Throughout the semester we will look at how gender is a primary field within which our power is articulated, studying the complexity of gendered cultural, literary, social, and religious constructions. We will study institutional ideologies and rules (both religious and secular) in their relation to constructions of the body, examining the impact of the discourses of Conquest, Counter-Reformation teachings, confessional practice, medical discourse, Inquisition processes, as well as religious genre conventions. We will read the works of more canonical authors (Colón, Pané, Cabeza de Vaca, Las Casas, Rodríguez Freyle, Catalina de Erauso, Sor Juana Inés de la Cruz, Sigüenza y Góngora, Juan Valle Caviedes) as well as writers of religious, didactic and legal texts of the period (e.g. Madre María de San José, Antonio Núñez de Miranda). We will also read critical and theoretical works that take up the concerns of the construction of sexual and gendered identities in society including Butler, Foucault, de Certeau, Jonathan Sawday, Margo Glantz and others. In Spanish.

Credit 3 units.

SPAN 5080 A Planetary Avant-Garde: Experimental Literature Networks and the Legacies of Iberian Colonialism

This Hispanic Studies graduate seminar focuses on the literary and artistic period known as the historical avant-garde (1909-1930) with a global, planetary perspective in relation to the legacies of Iberian colonialism across the world. As a historical event closely intertwined with the global expansion of Western colonialism, capitalism, and industrialization during the early twentieth century, the historical avant-garde constitutes a rich period during which various transnational connections are articulated, experienced, and imagined across the world beyond a merely European or Anglo-American framework as it relates to the impact of Iberian colonialism in different regions of the globe. While providing a theoretical introduction to avant-garde and global modernist studies, with archive of primary sources related to the field of Hispanic Studies, as well as Lusophone Studies, our course will study instances of experimental literature networks emerging during the historical avant-garde across Western Europe, East Asia, West Africa, and the Americas. The course format thus aims to combine the analysis of important critical and theoretical readings across these sub-fields, with the close reading of a series of primary readings central to global avant-garde. Through the examination of the work of authors like Almada Negreiros

and Fernando Pessoa (Portugal), Tarsila do Amaral and Oswald de Andrade (Brazil), Vicente Huidobro (Chile), Jose García Villa and Angela Manalang Gloria (Philippines)-as well as theoretical readings by Laura Doyle, Gayatri Spivak, Marjorie Perloff, Peter Bürger, Dipesh Chakravarty, Bruno Latour, Caroline Levine, Benedict Anderson, and Tamar Herzog among others-this course will explore the interrelated aesthetic, linguistic, sociohistorical, and geopolitical dimensions of the emergence of a planetary avant-garde during the first three decades of the 20th century, as well as its various rearticulations in the 1960s and the contemporary period. Taught in English; Spanish reading proficiency required; for Graduate students only.

Credit 3 units.

Typical periods offered: Spring

SPAN 5100 18th Century Spanish Literature in the European Context:**The Invention of Modernity**

The eighteenth century radically changed Spain as it did the whole of Europe. The founding of academies, the proliferation of newspapers, advances in the sciences and technology, the emergence of a new social class, the seduction of new ideas about society, morality, and gender, are only a few of the strands that make this time and literature notable. We will study Spanish writers such as Feijoo, Isla, Torres Villarroel, Moratin, Iriarte, Melendez Valdes, Cadalso, and Jovellanos, within the framework of the European Enlightenment.

Credit 3 units.

SPAN 5110 Two Spanish Masterpieces

An in-depth reading including a careful study of their particular formation viewed as an example of the so-called medieval textuality which, according to the most recent theories, needs to be put into question and reformulated (Stock, Zumthor, Dagenais). This close reading will be complemented with a presentation of the criticism that surrounds both works and with a comparative discussion on related texts such as sources and continuations.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 5120 Studies in Literature of 16th and 17th Centuries

The class will address the ways in which religion, empire and cultural contact converged to create new masculine identities in colonial Hispanic America. We will examine how European models of masculinity were shaped through contact with a religious and cultural "other" to produce a series of new colonial masculinities. We will read theoretical and critical works which will provide us with the tools to analyze masculinity not as a fixed and consistent concept, but rather as an evolving and contested idea which challenged Western notions of idealized manhood and revealed the anxiety behind society's need to maintain this same ideal. We will examine a series of texts authored by men and occasionally women whose work allows us to interrogate the construction of series of key masculine figures including the conquistador, the missionary, the "savage" and the martyr. Primary readings will include authors such as Ignatius of Loyola, Bartolomé de las Casas, Hernán Cortés, Guaman Poma, Sor Juana Inés de la Cruz and Valle y Caviedes. Secondary critical readings will feature, among others, selections from Connell, Wiegman, Laqueur and Breitenberg

Credit 3 units.

SPAN 5140 20th-Century Spanish Literature

We will study selected works by Valle-Inclán, Azorín, Baroja, Benavente, Machado and Unamuno. We will examine the concept of "generation", cover all genres, and place them in their historic and aesthetic contexts. Requirements: one book report and a closely monitored research paper which ought to move through various drafts before completion.

Credit 3 units.

SPAN 5150 Feminist Literary and Cultural Theory

This course provides a historical overview of feminist literary and cultural theories since the 1960s and 70s, acquainting students with a diversity of voices within contemporary feminism and gender studies. Readings will include works of French feminism, Foucault's History of Sexuality, feminist responses to Foucault, queer (LGBTQ+) theory, postcolonial and decolonial feminism, feminist disability theory, and writings by US feminists of color (African-American, Asian-American, Latina, Native-American). The reading list will be updated each year to reflect new developments in the discipline. We will approach these readings from an intersectional and interdisciplinary perspective, considering their dialogue with broader sociopolitical, cultural, and philosophical currents. By the end of the course, students are expected to have gained a basic knowledge of the major debates in feminist literary and cultural studies in the last 50 years, as well as the ability to draw on the repertoire of readings to identify and frame research questions in their areas of specialization. The class will be largely interactive, requiring active participation and collaborative effort on the part of the students. Students will be encouraged to make relevant connections between the class readings, everyday social and political issues, and their own research interests. NOTE: This course is in the core curriculum for the Women, Gender, and Sexuality Studies graduate certificate. Prerequisite: advanced course work in WGSS or in literary theory (300 level and above) or permission of the instructor. Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: HUM EN: H

SPAN 5151 Studies in the Literature of Latin America

The field of modern Iberian studies has finally taken the imperial turn-defined by Antoinette Burton as the accelerated attention to the impact of histories of imperialism on metropolitan societies-forcing a reckoning with the legacies of Spain's colonial past and its continued impact on the present. The long nineteenth century was a critical moment in the history of colonialism in the Iberian world: in the face of colonial loss in the Americas, the problem of slavery (and the slave trade) became a major subject of debate among not only politicians and social reformers, but also literary writers of the period. We will examine the nature of this debate through the study of diverse forms of Iberian cultural production, including abolitionist literature (narrative, theater, and poetry), the political essay, and periodical publications, as well as analyzing the controversies surrounding monuments to slave traders and colonizers, constructed in the nineteenth century. Authors to be considered include the theologian José Blanco White, playwright María Rosa Gálvez, poet Carolina Coronado, Gertrudis Gómez de Avellaneda, popular novelist Ayguals de Izco (also the translator of Uncle Tom's Cabin into Spanish), the social reformer Concepción Arenal, women's magazine editor Faustina Sáez de Melgar, and the realist novelist Benito Pérez Galdós, among others. The analysis of primary sources will be supplemented by historical, critical, and theoretical readings in gender, postcolonial and critical race studies. Students will be expected to maintain a weekly log of their reflections on the readings and to engage actively in class discussions. A final paper and a mock conference talk will also be required.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 5160 19th-Century Spanish Literature

This course will examine women's writings, from the late nineteenth century to the present, in the context of the rise of the feminist movement in Spain. Both fictional and non-fictional narratives will be considered. Authors to be studied include nineteenth-century proto-feminists such as Emilia Pardo Bazán and Concepción Arenal, Margarita Nelken and other female activists of the Republican period,

and, finally, feminist writers of the post-Franco era, such as Lidia Falcón and Montserrat Roig. Special focus will be given to issues of agency and rhetorical positioning in these women's discourses as they relate to the concrete political context in which they are writing.
Credit 3 units.

SPAN 5161 Poetics & Politics of Rep. in 19th-Century Spanish Realism

This course will examine the ways in which reality is constructed in the Spanish realist narrative, drawing both on 19th-century novelists' own conceptualizations of realism and on modern theoretical approaches to this problem. We will explore the evolving notions of realism in the 19th century in view of the esthetic and ideological projects of individual authors, focusing in particular on the ways in which issues of gender, sexuality, class, ethnicity and national identity find articulation in realist discourse. Literary readings will include narrative fiction by such canonical figures as Galdós, Clarín, Pardo Bazán, and Valera, as well as a representative sampling of works by lesser-known women and by popular novelists of the period. In Spanish.
Credit 3 units.

SPAN 5170 Spanish Phonetics, Phonology, and Dialectology

This course, conducted in Spanish, explores the linguistic varieties of the 21 Spanish-speaking countries from both a historical and a synchronic perspective. The course begins with a traditional look at Spanish phonetics and phonology, with all students memorizing and utilizing the International Phonetic Alphabet. Course readings and discussions extend beyond the descriptive and include a search for the sources of language variation within the Spanish speaking world. Particular attention is devoted to language contact and bilingualism. Students will read in areas such as history, sociolinguistics, dialectology, and sociology, as well as traditional linguistic studies, in designing their projects concerning phonetics, phonology and dialect diversification.
Credit 3 units. A&S IQ: LCD BU: IS EN: H

SPAN 5171 Poetics and Politics of Representation in 19th-Century Spanish Realism

This course will examine the ways in which reality is constructed in the Spanish realist narrative, drawing both on nineteenth-century novelists' own conceptualizations of realism and on modern theoretical approaches to this problem. We will explore the evolving notions of realism in the nineteenth-century in view of the esthetic and ideological projects of individual authors, focusing in particular on the ways in which issues of gender, sexuality, class, ethnicity and national identity find articulation in realist discourse. Literary readings will include narrative fiction by such canonical figures as Galdós, Clarín, Pardo Bazán, and Valera, as well as a representative sampling of works by lesser-known women and popular novelists of the period.
Credit 3 units.

SPAN 5180 Special Topics in Peninsular Hispanic Literature

Miguel de Cervantes's Don Quijote is a complex experiment in the narration of "history" that has influenced literary and other forms of cultural production in and beyond the geographical zone of the former Spanish empire during more than four centuries. In addition to establishing a prototype for the modern novel, this narrative fiction, written and published ten years apart as two books, dialogues in the story of its errant protagonist with the dominant and emergent discourses of its time, modeling the potential of the cultural artifact to speak to history for its public. Primary focus will be given to the ways that Don Quijote deploys and questions the use in early modernity of the mediums of cultural production (various types of writing, orality, visual representation) to shape knowledge and collective memory; its representation of imperialism and colonialism; and its creation of

linguistic and ideological pluralism, reflecting the realities of its world. The seminar's readings will include critical and theoretical works relevant to these areas of focus. Prereq: Graduate Standing. In Spanish.
3 units.
Credit 3 units.

SPAN 5190 Urban Myths: Latin American Cities in Literature

Latin American cities have historically played a crucial role in the construction of culture. In this course, we will explore how the idea of the City is imagined within different cultural contexts. Such an exploration will involve careful attention to, among other concerns, how the City has been mapped with regard to boundaries of race, class, gender, and ethnicity. We will study important critical and literary works by Vargas Llosa, Onetti, Puig, Fernando Vallejo and Bryce Echenique. In Spanish.
Credit 3 units.

SPAN 5191 Urban Spaces, Gendered Places: Women, City & Modernity in Late 19th- & Turn-Of-The-Century Spain

This course will examine the representations of the city in the literature of late nineteenth- and turn-of-the-century Spain, focusing on the ways in which the cultural history of the city is linked to the production of gendered spaces in moment of uneven and uneasy transition to modernity. Through a close analysis of texts by authors from Galdós and Pardo Bazán, to Baroja and Carmen de Burgos, we will explore women's shifting and unstable place in the emergent consumer society of urban Spain, and their impact on the construction of a modern urban identity and national consciousness. The significance of these gendered spaces will be considered from the viewpoints of diverse groups of women who inhabited the city: the bourgeois angel of the house, working-class women, prostitutes, the bohemian flâneuse, among others. From these viewpoints, we will attempt to construct a feminist counter-discourse that vies to undermine the dominant tropes of a masculinized urban modernity.
Credit 3 units.

SPAN 5200 Special Topics in Colonial and Post-Colonial Literature

CULTURAL HETEROGENEITY? TRANSCULTURATION? HYBRIDISM? WHAT IS ALL THAT ANYWAY. In this course we will examine and question theoretical paradigms such as "mestizaje," transculturation, cultural heterogeneity, colonial discourse, and hybridism for the study of primary texts written by Indians, Mestizos, Creoles, Spanish and Chicanos in colonial and post-colonial Latin American Literature.
Credit 3 units.

SPAN 5210 Losers, Divas and Dolls in Latin American Literature

Among the issues to be explored through readings, film and music are gendered representation of the body and the city, the family as a disciplinary instance and the reactions against it in urban fictions. Readings include works by Silvina Ocampo, Elena Garro, Clarice Lispector, Felisberto Hernández, Fernando Vallejo, Roberto Arlt and others.
Credit 3 units.

SPAN 5220 Protest and Pleasure: The Politics of Latin American Cinema

Latin American Cinema has been an important vehicle for the discussion and fostering of social change in this continent. Revisiting the main creative currents and theoretical formulations about the social role of cinema will help us understand the ways in which the cinematic image can address the revolution, confront authoritarianism and criticize neoliberal democracies. This graduate

seminar emphasizes the acquisition of the concepts and tools for cinematographic analysis as well as the reflection on the historical evolution, production, distribution, and consumption of cinema during key periods in Cuba, Argentina, Mexico, and Brazil.
Credit 3 units.

SPAN 5221 Globalism and Technology in Recent Latin American Narrative

As Latin American countries have dealt with the impact of the neoliberal regimes of the 1990s, we have seen a marked increase in novels that explore the implications of global business, culture, and technology in Latin America. In this course we will examine a series of novels by authors like Ricardo Piglia, Rafael Courtoisie, Alberto Fuguet, Carmen Boullosa, Eugenia Prado, Alicia Borinsky, and Edmundo Paz-Soldán among others as we analyze the representation of technology, global media, neoliberalism, and the arrival of a Latin American posthuman body in contemporary narrative. We will include a variety of theoretical approaches in our examination, including works by García Canclini, Haraway, Hayles, Hopenhayn, Richards, and Deleuze and Guattari.
Credit 3 units.

SPAN 5230 All About Spanish Cinema

This course surveys major themes in recent Peninsular Cinema. While the main focus will be on films from the past decade, we will spend a few weeks studying the most important trends since the Spanish Civil War. Throughout the course, such issues as representation of the war, resistance to Francoism, nationalism, globalization, immigration, and youth culture will be addressed; the construction of memory and the representations of violence will be underlying themes. In addition to situating the films in a historical, cultural, and political context, we will study different theoretical approaches to film and visual culture stemming from psychoanalysis, feminism, and postcolonial studies, as the course also aims to provide students with the necessary tools to analyze and write about film. We will view works by Pedro Almodóvar, Alejandro Amenábar, Montxo Armendáriz, Iciar Bollain, Víctor Erice, Fernando León de Aranoa, Alex de la Iglesia, Julio Medem, Basilio Martín Patiño, and Carlos Saura, among others. The course will be divided into 10 different sections. These sections delineate a progression of literary, historical and theoretical issues that will allow us to develop critical positions in relation to films discussed in class as well to cultural developments in twentieth-century Spain. Requirements include active seminar participation, a presentation, and a final paper.
Credit 3 units.

SPAN 5240 Cuban Literature: Within, Against and Beyond the Revolution

In this seminar we will focus on contemporary Cuba within the broader cultural and historical context of the Caribbean. Drawing upon a variety of theories (postcolonial, cultural studies, discourse analysis), we will emphasize textual interpretations of discourses in several different genres (poetry, theatre, narrative, testimony, political discourse, essay) by a variety of authors: from the revolutionary canon (Guillén, Carpentier, Morejón, Barnet), through the diaspora (Pérez Firmat, Behar, Benítez Rojo) to the youngest generation of the so-called POST-NOVISIMOS. Themes under discussion include, but are not limited to: syncretism, transculturation, CUBANIDAD, intellectual freedom and censorship, TESTIMONIO, bridges to/from Cuba, cultural memory, arts of resistance. Students may be required to view selected films outside of class. REQUIREMENTS: shorter written assignments (article summaries; book responses) and research leading to a major paper, in class discussion.
Credit 3 units.

SPAN 5241 Myth, Memory, and Space in Cuban Literature

This course explores the multilayered Cuban identities - both on the island and in the diaspora - within the spatial context of the Caribbean and in connection with the legacy of the Atlantic slave trade, plantation economy, African-based spirituality, and colonial/postcolonial domination. The central themes of memory, forgetting and spaces of resistance are studied through the works of Morejón, Guillén, Loynar, Carpentier, Ponte, and Triana, among others. Offered in Spanish, for graduate students only. REQUIREMENTS: In-class participation, mid-term exam, final research paper, brief responsive papers. 3 units.
Credit 3 units.

SPAN 5250 The Ethics of the Exeumplum

This course will be devoted to the reading and discussion of the most important collections of medieval Spanish exempla, such as the Sendebär, the book of Calila et Dimna, the Barlaam et Josafat, the Conde Lucanor, the Libro de los Gatos, and the Libro de los Exemplos por A.B.C. We will study various theoretical issues that can contribute to the understanding and aesthetic appreciation of these texts, such as their narrative structures, the cultural and ethical issues that led to their creation, and the ways in which these issues were treated by different authors and translators. We will also try to understand how these written texts existed in a society that was predominantly oral and how this same orality contributed to their shaping, transmission, and preservation.
Credit 3 units.

Typical periods offered: Fall

SPAN 5261 Crime and Criminals in 19th-Century Spanish America

The definition of deviant conduct was a mainstay of the discourse of nation building in Latin America. The idea of progress was never conceived without first taking for granted a specific idea of order that referred not only to the public space but also to the newly independent citizens' private lives. In this course, we will study -- through the readings of legal, medical, and literary texts of the time -- how criminal conduct was represented in literature and newspapers. We will focus on the impact the definition of the criminal subject had on the social, political, economic, and cultural arenas. In particular, we will concentrate on the roles of lawbreakers and their actions in 19th-century novels. Some of the authors studied will be Juan Montalvo, Eduardo Blanco, Manuel Payno, José Martí, and Federico Gamboa.
Credit 3 units.

SPAN 5270 Whose Latin America(nism)?

The course will focus on the evolution of the Latin American field, from area studies to cultural studies, with special attention to some of the debates that have run across the field in the last two decades: baroque/neobaroque, modernity/postmodernity, colonialism/post-colonialism, national/post national. Theoretical and textual analysis will also give basis for an introductory reflection on the role of gender and ethnicity in the construction of collective subjectivities from colonial times to the present.
Credit 3 units.

SPAN 5290 Baroque/Neobaroque/Ultrabaroque

The course will explore, from a trans-historical, trans-disciplinary perspective, the continuity of Baroque aesthetics throughout Latin America's cultural history from colonial times to the present. The course will be divided in 3 parts: 1) the analysis of Baroque writing, public art and performances of the XVIIth century (Sor Juana, Sigüenza y Góngora, Espinosa Medrano, villancicos, arcos triunfales, etc.), 2) the study of literary texts and manifestos of the neobarroco and neobarroco in the XXth century (Sarduy, Perlonguer, Lamborguini) and other examples more marginal but still associated with contemporary Latin American Baroque (Marossa di Giorgio, Pedro Lemebel et al.),

3) new reappearances of the Baroque in the visual arts both in Latin America and in Latino art. The course will analyze the connections between Baroque and Modernity, with particular emphasis on ideological issues, representation of gender/genre, and identity politics.

Credit 3 units.

SPAN 5300 The Inventions of America: Latinoamericanismo in the XXth Century

This course surveys what Santiago Castro Gómez has termed the birth of Latin America as a philosophical problem, in the wake of the Mexican Revolution, and the different incarnations of this philosophical and cultural problem in the writings of Latin American essayists throughout the XXth Century. The course will be divided in three sections. First, we will closely read foundational figures of the first decades of the XXth Century--like Alfonso Reyes, José Vasconcelos, José Carlos Mariátegui, Gilberto Freyre and Pedro Henríquez Ureña--in order to discuss different cultural ideologies, such as MESTIZAJE, cosmopolitanism and idigenism, as well as their literary and intellectual genealogies. Through these readings, students will analyze the re-formulation of the notion of Latin America in the wake of the Mexican Revolution. Then we will move to mid-century intellectuals--Leopoldo Zea, Edmundo O'Gorman, Roberto Fernández Retamar--to discuss the continuities and ruptures of those ideas before and after the Cuban Revolution. The second part will focus on the philosophical question of America as a historical being, as well as the consequences of this idea in intellectual projects of cultural emancipation. Finally, we will turn to authors from the last quarter of the century--Enrique Dussel, Angel Rama, Antonio Cornejo Polar, Román de la Campa--in order to assess the reinvention of LATINOAMERICANISMO and its founding principles in the contexts of postcoloniality and cultural studies. The aim of this course is not only to familiarize students with the backbone of Latin Americanist thinking, but also to engage in an advanced-level critical and theoretical reading of these foundational figures in terms of their literary and philosophical genealogies--thinkers such as Hegel, Spinoza, Heidegger and Foucault, among others--and the consequences of their thinking in contemporary Latin American literary and cultural studies.

Credit 3 units.

SPAN 5310 Thousand and One Travelers' Tales: Exile, Immigration and Memory in Contemporary Spanish Culture

In light of recent migratory flows to Spain, such issues as multiculturalism, racial and ethnic conflict, and religious and linguistic diversity have received renewed attention within the Social Sciences, and have also been the subject of recent films and selected literary text. However, these issues have not been sufficiently discussed in relevance to the debates on the constructions of cultural memory (particularly in regards to the Spanish Civil War and its aftermath), which in many ways have dominated the field of Spanish Cultural Studies. In this course, we will attempt to bridge this gap, while simultaneously studying the main historical developments from the Second Republic in 1932 to the present. We will examine, among other issues, the meanings of the Medieval convivencia of Arabs, Christians and Jews in contemporary Spain, the relationship between the end of this period and the forging of an Imperial culture, which was nostalgically invoked during the Francoist era, the myth that Francisco Franco saved Spanish Jews from a certain death in the Holocaust, the meanings attached to a Mediterranean culture, contemporary tours of Jewish and Arab Spain, and the representation of immigration in contemporary narrative and film. Readings include works by Nicolas Abraham and Maria Torok, Ammiel Alcalay, Cathy Caruth, Américo Castro, Jacques Derrida, Federico García Lorca, Paul Gilroy, Juan Goytisolo, Ránjana Khanna, Julia Kristeva, María Rosa Menocal, Angelina Muñoz-Huberman, Antonio Muñoz Molina, David Nirenberg, Juana Salabert, and Edward Said. We will also watch films by Carlos Saura, Iciar Bollain and Fernando León de Aranoa.

Credit 3 units.

SPAN 5320 Poetics and Politics in Democratic Spain

This course examines the various political implications of some of the most influential poetic movements during the last 40 years taking place in Spain. The course combines close readings of the work of key poets of the period, with the critical analysis of their respective poetics in relation to the politics of the Transition period, and the ensuing democratic period after Franco's totalitarian regime. Throughout the course, we will examine various historical, political, and social events determining the poetic and cultural production of the period such as the politics of memory, gender inequality, exile, and migration. We will also focus on the tensions between various Iberian national identities, the impact of key Latin American poets in exile during the 1970s, as well as the more recent 15-M movement and the economic crisis in the early 21st century. Some of the poets that we will study (originating from various regions of Spain, Latin America and Equatorial Guinea) include Jaime Gil de Biedma, Gloria Fuertes (1960s); José Ángel Valente Leopoldo María Panero, Juan Gelman, Mario Benedetti, Raquel Ilombe, Cristina Peri Rossi (in the 1970s); Ana Rossetti, Luis García Montero, Joaquín Sabina (1980 and 90s); Kirmen Uribe, Agustín Fernández Mallo, Chantal Maillard, Ana Merino, Víctor Rodríguez Núñez, and Carla Badillo Coronado (2000s). We will also read critical essays by Hannah Arendt, María Zambrano, Cristina Moreiras, Jo Labanyi, Antonio Méndez Rubio, Guillem Martínez, Germán Labrador Méndez, José Ignacio Padilla, and Belén Gopegui, among other writers, and scholars in the field. Offered in Spanish, for graduate students only. Requirements: In-class participation, individual presentations, weekly online responses, and final research paper.

Credit 3 units.

SPAN 5340 Early Modern Spectacular Culture

This seminar studies a range of early modern visual and theatrical representations from the sixteenth and seventeenth centuries, in order to understand the major role that public spectacle played in Hispanic cultures shaped by popular literacies. We will examine the deployment of spectacle for the purpose of cultural formation, in royal pageantry and elite portraiture that sought to shape historical memory, and in the rich staging of Jesuit school plays that aimed to inform beliefs and recruit (male) public interest in reading, writing, and social advancement. At the same time, we will explore works of the comedia that drew crowds from all walks of life, as Lope de Vega's ARTE DE NUEVO DE HACER COMEDIAS spurred a boom in plays that abandoned classical formal models instead to mirror life for an avid public of mixed literacies. Shaped by popular tastes, this new form of entertainment represented social relations between elites and common subjects, as well as between genders, as complex and contested dynamics of power, negotiated by performances of identity that could invite public laughter, scorn, or censure. These works incorporated a wide range of questioning voices into the spectacular formation of early modern Hispanic culture. Our focuses will include visual and textual sources of elite spectacles, a Jesuit school play, Lope's dramatic treatise, and a range of comedias that deploy visual and linguistic spectacle as a means of cultural performance, including most works on the doctoral reading list for this period. Critical and theoretical selections as well as visual materials will inform our analyses. Prereq. Graduate standing.

Credit 3 units.

SPAN 5350 Sociology of Latin American Literature

This class is an introduction to the field of sociology of literature as relevant to Latin America. This field is focused on the study of literature as a material and institutional practice and of the concrete structures of production, circulation and reception of literary works. The class will focus on the study of issues such as: the construction of an autonomous literary field within the field of cultural production; the sociology of literary form; and the relationship between literature and

the economic market, via institutions such as magazines, publishers and agents. These questions will be explored through both theoretical discussions and case studies, mostly focused in Mexico. The course will focus readings from major theories of literary sociology (including Georg Lukács, Franco Moretti, Pierre Bourdieu and others), major interventions on the subject by Latin American critics (Pedro Ángel Palou, Ericka Beckman, Jean Franco and others) and some canonical authors which will be used to exemplify the theories (José Asunción Silva, Jorge Cuesta, José Joaquín Fernández de Lizardi, Juan Rulfo and others). Readings in English and Spanish, course taught in Spanish. Prereq. Graduate standing.

Credit 3 units.

SPAN 5360 Colonial Memories, Postcolonial Crossings, and Spanish Cultural Studies

In this course we will examine different approaches to postcolonial studies (Edward Said, Gayatri Spivak, Dipesh Chakrabarty, Ella Shohat, Walter Dignolo) in relation to texts focusing specifically on Spain's cultural and religious pluralism (Américo Castro, Daniela Flesler, Susan Martín-Márquez, Eduardo Subirats, Alfredo Campoy-Cubillo). We will also discuss the theoretical foundations of such concepts as Convivencia, Orientalism, Transatlantic Studies, and Mediterranean Studies. We will begin the semester by discussing the end of Spanish empire in the nineteenth century and then move across the violent twentieth century and into the twenty-first century in order to assess the ways in which colonial, postcolonial, and neo-colonial discourses shape contemporary culture in Spain and the nation's former colonies. Primary texts may include novels (Ana María Matute's PRIMERA MEMORIA, Juan Goytisolo's DON JULIAN), films (Chus Gutiérrez's films PONIENTE [2001] and RETORNO A HANSALA [2008], Iciar Bollain's films FLORES DE OTRO MUNDO [1999] and TAMBIÉN LA LLUVIA [2012]), and more recent depictions of and approaches to migration, multiculturalism, and memory in Spain in times of crises. All texts are available in translation.

Credit 3 units.

SPAN 5370 The Production of Culture: Jose Maria Arguedas and the Migrating Andes

Taking the oeuvre of writer, folklorist, and anthropologist José María Arguedas as a case study, this graduate seminar will examine the way 20th-century intellectuals dealt with material transformations in the production and circulation of cultures in the Andean region. Through the analysis of literary texts, ethnographies, journalism, practices of cultural promotion and recordings, we will explore the role of orality, writing and other, more recent technologies (such as the voice recorder, the radio, and music records), as well as that of capitalist markets and cultural commodification, in the configuration of public spheres in the Andes. Similarly, we will analyze the impact of the emergence of said public spheres on the imaginaries and materialities of nation, ethnicity, and the political dimension of culture. Conceptualizing immigration and urbanization as the key historical processes for our case study, the seminar will offer a historical and theoretical framework for understanding the transformations. rural and urban cultures in the Andean region region underwent during the past century, paying close attention to the classical debates these transformation generated in the field of Andean studies. This seminar will have a strong interdisciplinary approach, combining topics such as cultural production, intellectual and cultural history, media studies, culture history, and public sphere. Readings in English and Spanish; course taught in Spanish. Prereq: Graduate standing.

Credit 3 units.

SPAN 5380 Literature and Modernity in 20th-Century Mexico

This class will develop a critical reading of the literary history of Mexico from the late Porfiriato to the year 2000. The course will focus on the way in which different genres (novel, short story, essay, chronicle, poetry) engage with four different moments of capitalist modernization in Mexico: The Porfirian reforms, the Mexican Revolution, the Mexican Miracle of the 1950s and 1960s and Neoliberalism. Each session will engage in the comparative study of representative texts of two and three authors, with key works of theory and criticism, in order to understand phenomena such as cultural mediation, ideology, urbanization, technology, national identity, cosmopolitanism and the construction of literary institutions. Authors and movements include late MODERNISMO, the stridentist movement, Octavio Paz, Juan Rulfo, José Revueltas, the CASA DE LAGO movement, LA ONDA and the CRACK group. Prereq: Graduate Standing. In Spanish.

Credit 3 units.

SPAN 5390 Crisis and Modernity in the Spanish Fin De Siècle

This course will focus on the literature and culture of the Spanish fin de siècle, a moment of social, political, and cultural crisis marked by both domestic instability and imperial loss abroad, even as the nation was making its uncertain and uneven entry into modernity. We will explore the impact that this crisis had on literary and cultural representations at the turn of the century, as well the cultural debates that it generated on the problem of Spanish national identity. Taking as a point of departure a statement made in a novel by the nineteenth-century realist Benito Pérez Galdós, that the late nineteenth century was a moment that saw the disappearance of classes, groups and categories, we will examine how the general crisis of category in the fin-de-siècle transformed perceptions of identity--such as class, gender, sexuality, race, and nationality--and gave rise to new aesthetic forms and preoccupations that heralded a modern(ist) sensibility. Materials to be examined will include works by both canonical writers and artists, as well as popular cultural representations, on both sides of the century line.

Credit 3 units.

SPAN 5400 Baroque Intellectuals: Sor Juana Ines De La Cruz and Sigüenza Y Gongora

The multifaceted intellectual and literary production of Sor Juana Inés de la Cruz and Carlos de Sigüenza y Góngora dominates the cultural landscape of seventeenth-century colonial Mexico. In this class we will examine representative works from both of these authors, addressing a wide variety of genres - history, theology, poetry, theater, scientific writing, autobiography and biography - to plot the contours of elite baroque culture. In bringing these two authors together in one class we will be able to examine in detail the preoccupations of these baroque intellectuals - their inferior status as criollos (Mexicans of pure Spanish descent), the challenges involved in disseminating their works, as well as the difficulties imposed by an absolutist state and orthodox religious power structure. We will also focus on the differences in their works and lives that sprang from their respective genders, taking a close look at the production of femininity and masculinity in colonial Mexico. This class will also strive to create a detailed socio-cultural and historical context in which to place the works of these two figures. Primary texts will include Paraíso occidental, Respuesta a Sor Filotea de la Cruz, Autodefensa espiritual, Infortunios de Alonso Ramírez, Teatro de virtudes políticas, Neptuno alegórico, Libro astronómico, Carta Atenagórica, as well as a selection of Sor Juana's poetry and villancicos. Secondary sources will include works by Foucault, Paz, Morán, Merriam, More, Glantz and Ross. Graduate standing. In Spanish.

Credit 3 units.

Typical periods offered: Fall

SPAN 5410 Major Seminar

An undergraduate seminar. Topics vary. Prereq: Span 307D and Span 308E and at least two 300-level literature/culture surveys taught in Spanish.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

SPAN 5411 Memory, Mobility, and Space in Contemporary Spain

From the mythical medieval convivencia to the nineteenth-century notion that Africa begins at the Pyrenees, from the two Spains, to Spain is Different, from the Pacto del Olvido to the recuperation of historical memory, from Una, Grande, y Libre to Catalonia is not Spain, from en España se vive bien to the predicaments of the Generación Noqueada, discourses over identity and belonging in contemporary Spain have been fraught with conflicts and contradictions. Recent theoretical approaches to memory, mobility, and space provide productive perspectives that make it possible to examine these conflicts and contradictions. Thus, in addition to examining the key debates within Spanish Cultural Studies from the 1990s to the present, the course provides students with theoretical and methodological tools, stemming from such fields as Memory Studies, Migration Studies, Postcolonial Studies, Spatial Humanities, and Transatlantic Studies. Readings include works by Aleida Assmann, Max Aub, Américo Castro, Javier Cercas, Tim Creswell, Helen Graham, David Harvey, Anne Knowles, Federico García Lorca, Paul Gilroy, Juan Goytisolo, Susan Martín Márquez, María Rosa Menocal, Antonio Muñoz Molina, Michael Rothberg, and Edward Said. We will also watch films by Iciar Bollain and Fernando León de Aranoa, Emilio Martínez Lázaro, and Julio Medem. Prereq: Graduate Standing. In Spanish.

Credit 3 units.

SPAN 5420 Latin American Mediascapes: From Mass Culture to Indigenous Media and Global Consumption

The increasing commodification and technological mediation of culture over the past century has transformed the constitution of identities and communities, as well as the very form of the popular and the political. How have these transformations modified our understanding of national, regional, and local cultures in Latin America? How do the ways in which indigenous and urban populations experience identity and community differ? What comes after the dissolution of categories such as lo alto, lo popular y lo indígena? Concentrating on Latin American cultures from the twentieth century to the present, this course takes an interdisciplinary approach in order to answer these questions, and explores them through three aspects of mediation: commodification, technology and consumption. These aspects are studied within four different debates: (1) Literary responses to mass culture: tensions between lettered practices and mass media, the value of democratization, and the politics of mass-oriented culture and literature are analyzed. Authors discussed may include: Mario Vargas Llosa, Ricardo Piglia, and Luis Rafael Sánchez; (2) Communication and nation: the role of technological orality (and its clash with print culture) in the configuration of national and campesino cultures in the Andes is explored; (3) The emergence of Indigenous media: an analysis of the reformulation of the politics of representation and the agency of indigenous and subaltern subjects in the countryside and the city in the midst of the boom of this kind of media throughout Latin America, particularly in the Amazon; (4) Consumer cultures: early twentieth-century consumption of popular print culture (sensationalist press) is compared to current discussions of consumption in contemporary urban Latin America in order to discuss democratization, citizenship, and global identities. Readings include works by Theodor Adorno, Walter Benjamin, Arjun Appadurai, Friedrich Kittler, Jean Franco, George Yúdice, and Beatriz Sarlo. Students are encouraged to propose and discuss additional examples of national cases or authors. Prereq: Graduate Standing. In Spanish.

Credit 3 units.

SPAN 5430 Gender, Race, and Colonialism At the End of Empire in 19th-Century Spain

This course will examine the ways in which gender, race, and colonialism informed discourses on nation and empire in the long 19th century in Spain. Drawing on recent developments in gender, postcolonial, and critical race theories, we will analyze literary and other forms of cultural representation that engaged with major social and political debates of the century around issues such as slavery, gender equality, prostitution and sex-trafficking, transoceanic migration, racial degeneration, improvement (eugenics), and mestizaje. Materials to be examined include plays of the early century, such as María Rosa Gálvez's Zinda and Duque de Rivas's Don Álvaro; the poetry and anti-slavery writings of Romantic authors Carolina Coronado and Gertrudis Gómez de Avellaneda; the narrative fiction of canonical realists such as Galdós, Clarín, and Pardo Bazán; and the works of popular novelists of the fin-de-siglo, such as López Bago, Eugenio Flores, and Felipe Trigo.

Credit 3 units.

SPAN 5440 Humanism, Magic, Love, and Rhetoric in Spanish**Literature of the 15th Century**

This is a course devoted to three related subjects that were central to the life and work of the Spanish intellectual elite during most of the 15th Century: the power of words, the nature of love, and an idea of magic that permeates the world, not only as a force to be reckoned with, but also as a means to better one's own position in society, both in the private and also in the public sphere. We will study a selection of texts produced in courtly and university circles, especially at the court of Isabel de Castile and at the University of Salamanca. Given the dynamic cultural exchange that was taking place at that time between the Iberian and the Italian peninsulas, special attention will be given to the arrival and development of humanism in Spain. We will study a selection of sentimental fiction, treatises of love, magic, and rhetoric, and conclude the course reading and analyzing the TRAGICOMEDIA DE CALISTO Y MELIBEA also known as CELESTINA, which is considered, to this date, the second most famous work of Spanish literature, just after DON QUIJOTE. The analysis of these texts will be simultaneous to an ongoing reflection about the establishment of the Spanish Inquisition and its effects on those who, still after having converted, were threatened and affected by its existence. We will also read a selection of theoretical and critical texts that will help us deepen our understanding of the primary readings. Prereq: Graduate Standing. In Spanish.

Credit 3 units.

Typical periods offered: Spring

SPAN 5450 Warriors and Pilgrims, Sinners and Saints: Foundational Texts of Medieval Castile

We will read and discuss in this seminar a selected corpus of medieval Castilian foundational texts such as: the POEMA DE MIO CID, the PRIMERA CRÓNICA GENERAL, the Romancero poetry related to the Cid, the POEMA DE FERNÁN GONZÁLEZ, the VIDA DE SAN MILLÁN DE LA COGOLLA, selections of: the MILAGROS DE NUESTRA SEÑORA, the CODEX CALIXTINUS, the CANTIGAS DE SANTA MARIA, and the LIBRO DE BUEN AMOR. The reading of this corpus will be enriched by a selection of theoretical and critical studies that will foster a better understanding of the role these texts played at different stages in the formation of Castilian identity. Some of the issues discussed will be: the politics and poetic forms involved, at different times, in the retelling of historical facts and legends, the relations between oral and written traditions, manuscripts and clerical culture, and the changing perceptions of Christians, Moors and Jews.

Credit 3 units.

SPAN 5460 Theory Into Practice: (Re)reading Span Amer Contemp Narratives Through the Lens of Recent Theories

Guided and inspired by the premise of the inherent synergy between theory and analytical practice, this seminar will provide graduate students with hands-on opportunities to (re)read major 20th and 21st century Spanish American narratives—both fictional and non-fictional—through the applied lens of select methodological approaches, most of them cross-disciplinary, such as social discourse (Angenot, Ducrot), various perspectives on ecocriticism, decoloniality (Mignolo), memory and trauma studies (Jelin and others), semiotics of spaces (Lotman, Lefebvre, Foucault) as well performance and visual studies. Throughout this course we will strive to achieve critically productive uses of theory while attempting to avoid mechanical applications and abuses. Works under analysis will include, among others: selected short stories by Juan Rufo and Amparo Dávila (México), Jorge Luis Borges, Silvina Ocampo and Luisa Valenzuela (Argentina), Ana Lydia Vega Serova, Aida Bahr and Marilyn Bobes (Cuba), along with selections from canonical testimonies (Barnet/Montejo, Cuba; Burgos/Menchú, Guatemala), essays (La fiesta vigilada by Ponte, Cuba), and novels and/or novellas by Carpentier, Fuentes, and García Márquez.

Credit 3 units.

SPAN 5480 The Art of Telling, Writing and Representing History in Medieval and Early Modern Spain

This course will be devoted to analyze a selection of texts produced in the Iberian Peninsula during the middle ages and the early modern period, whose principal subjects are the History and legends of the region that became, eventually, the kingdom of Castile. This will be our point of departure to better understand the uses of the past, as it becomes part of a text, and goes through the unavoidable process of fictionalization. We will study, for example, the ever problematic relations between the nobility and the monarchy and the uses of History as a source of exemplary matter, as inspiration to help create and reinforce social identity, and as a way to overcome censorship. With the objective of acquiring a better understanding of the uses of the past as a strategy to comment, explain and try to modify the present moment, and given the popularity that the historical novel has acquired in Spain in recent years, especially after the transition to democracy, our reading list will also include a few examples of these types of texts. For their final projects, the students will be asked to work in a synchronic and comparative way, with various representations of a legend, a character, or a historical event of their choice. In Spanish.

Credit 3 units.

SPAN 5491 Women Writers of Spain From the Enlightenment to the Contemporary Period

This course will examine various genres of writing by Spanish women—including narrative fiction, poetry, and the essay—from the eighteenth century to the contemporary period, paying attention to their role in engendering social and cultural transformations for women. We will approach their work, considering not only the challenges faced by women who took up the pen in different historical periods, but also the strategies they used to negotiate their participation in the public sphere as writers, intellectuals, social reformers and feminists. Authors to be studied include Enlightenment figures such as Josefa Amar y Borbón and María Rosa Gálvez; Romantic writers (Coronado, Gómez de Avellaneda), who, under the impact of liberalism, were key to shaping new models of subjectivity for women; nineteenth-century feminists and social reformers of the late nineteenth-century (Arenal, Pardo Bazán, Gimeno de Flaquer); early twentieth-century suffragists and freethinkers (Carmen de Burgos, Rosario de Acuña); and women writing during and in the aftermath of Franco's dictatorship (Rodoreda, Martín Gaité, Riera). We will explore the unique perspectives that these women bring to their writing as they address pressing social, political, and cultural issues—including universal suffrage, citizenship, slavery, nationalism, and women's (and human) rights.

Credit 3 units.

SPAN 5500 Special Topics in Spanish Literature and Culture

Credit 3 units.

Typical periods offered: Spring

SPAN 5510 Reading the Right to Have Rights: Borders, Mobilities, and Memories

Taking Hannah Arendt's notion of the right to have rights as a starting point, this course centers on the connections between the Humanities and Human Rights. We will discuss a variety of literary texts in relation to theoretical works from such fields as Border Studies, Critical Refugee Studies, Mobility Studies, and Memory Studies. This will allow us to examine different histories of displacement, spanning from the early twentieth century to the present. In addition to contextualizing the historical and legal significance of such terms as refugee, asylum, sanctuary, non-refoulement, or forced displacement, our discussions will also allow us to engage with the broader meanings of concepts that include hospitality, identity, belonging, and citizenship. A majority of the literary texts on the syllabus stem from the Hispanophone world; all are available in translation. Students will have the opportunity to add material to the syllabus and may base their final projects on their main areas of study, providing they are relevant to the theme and materials of the course.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 552 Methods of Literary Study: The Theory and Practice of Literary Translation II

Ident for L16 552

Credit 3 units.

SPAN 5600 Torture, Inquisition, and Literature

The course will focus on the theory and practice of torture in the Hispanic world and other countries where the Inquisition flourished: France, Mexico, Peru. Torture manuals will be adduced as well as archival materials. Inquisition trials from Spain and its dependencies will be studied; also historical texts by defenders and opponents of the Inquisition; among them, Marcelino Menéndez y Pelayo, Julio Caro Baroja, Haim Beinert, Henry Kamen, Miguel Blázquez Díaz and others. Literary texts by Marcos Aguinis, Carlos Fuentes, Homero Aridjis, Miguel Delibes, Carme Riera, Arturo Pérez Reverte, and others. Students will consult with the instructor to write a research paper. In addition, a short book report is required and will be the basis of an oral presentation.

Credit 3 units.

SPAN 5610 Beyond Survival: Black Agency in Colonial Latin America

Through the analysis of primary sources, where available, this seminar will examine the varied ways through which men and women of African descent garnered and exerted agency in colonial Latin America. Topics to be discussed include: archival politics, race, slavery, resistance, legal consciousness, family, clothing, corporate organization, military service, and festive and ritual practices. The seminar focuses on a lesser-studied aspect of the colonial experience and is intended to engage graduate students with a growing area of study in the field of Latin American literary and cultural studies.

Prereq: Graduate Standing.

Credit 3 units.

SPAN 5670 Grammar and Vocabulary Acquisition

This course examines theoretical and instructional implications of research on grammar and vocabulary acquisition. Topics include making form-meaning connections during language learning; developmental stages; the role of input and input processing; explicit and implicit methods of grammar instruction; pertinent factors in vocabulary acquisition, such as learning context and processing resource allocation; and comparisons of incidental and direct vocabulary instruction techniques. Major theories of language acquisition (e.g., nativism, emergentism) are critically examined in light of the research presented, and research findings are applied to instructional practices.

Credit 3 units. A&S IQ: LCD BU: BA EN: H

Typical periods offered: Fall

SPAN 5700 Nueva Narrativa Weird

With novels that include everything from talking refrigerators to ghostly twins, alternate histories to extraterrestrials, Latin American narrative of the last two decades from Mexico to Argentina has seen the rise of a nueva narrativa weird. We will explore the various theorizations of the weird, from Lovecraft, Freud, Borges and Cortázar to more recent conceptualizations and use them to evaluate novels by Rodrigo Fresán, Guadalupe Nettel, Jorge Baradit, Mike Wilson, Daniela Tarazona, Edmundo Paz Soldán and Álvaro Bisama. We will examine themes that run from cyborg theory to underground culture and a developing narrative aesthetic of intertextuality based on mashups and sampling.

Credit 3 units.

SPAN 5720 (Re)imagining the Greater Caribbean Through the Lens of Gender and Ethnicity

Conceived as a multicultural space, The Caribbean immediately calls to mind many complex images: the slave trade and plantation economy; the diaspora and Pan-Africanism; magical realism and the dark (post)colonial side of modernity. As Caribbeanists, we will look comparatively at the commonalities and the differences among the literary and cultural productions of Cuba, Puerto Rico, Dominican Republic, Columbia and Haiti, along with their respective diasporas. Exploring the notions of gender and ethnicity will enable us to further focus on such overarching themes as creolization and national building (belonging, inclusion, marginalization), gendered and racial politics of the diaspora, the performance of gender, sexual politics of tourism, the configuration of Afro-Latinidad, and the hybrid aesthetics emerging from the spiritual practices of African-derived (syncretic) religions. A combination of canonical and newest works will be presented in a variety of genres (testimonio, short stories, poetry, novels, theatre, film, essays, visual culture). In addition, we will tackle the complex methodological issues involved in cross-cultural and cross-racial research, including the works of Trouillot, Glissant, Césaire, Fanon, Mintz, La Fountain Stokes, Araújo, Benítez Rojo, Fernández Retamar, Torres Saillant, Paravisini-Gebert, among others. This seminar is also designed to guide you through the intense process of researching, drafting and writing a seminar paper of publishable quality.

Credit 3 units.

Typical periods offered: Fall

SPAN 5740 Seminar On the Complete Works of Leonardo Padura

The highly acclaimed and award-winning Cuban author Padura is known for his seven detective novels and many journalistic articles that deal with social and political issues in Cuba. We will read his works *Fiebre de caballo*, *Pasado perfecto*, *Vientos de cuaresma*, *Máscaras*, *Paisaje de otoño*, La novela de mi vida, *Adios Hemingway*, La cola de la serpiente, La niebla del ayer, *El hombre que amaba los perros*, and *Herejes*. These works will be studied using scholarship on Padura as well as sources used by Padura in his writing; special attention

will be paid to his style, structure and inter-textual preferences in examining Cuba's social and historical conditions as he raises questions about values and character creation in ways reminiscent of Tolstoy, Dostoevsky, Galdos and Dickens. Students will present a report on one of the novels, and produce a research paper of 20-25 pages on a topic chosen in consultation with the professor. Prereq: Graduate Standing. In Spanish.

Credit 3 units.

SPAN 5750 Myths Icons, & Fallen Idols: (Re)scripting the Haitian, Mexican, & Cuban Revolutions in Literature

In this seminar we will study the watershed moments in Caribbean and Latin America history, such as the Haitian, Mexican, Cuban, and Nicaraguan revolutions, through the lens of aesthetically and ideologically complex re-scriptings of these events in works of literature, film, visual arts, and testimonial accounts. We will explore possible correlations between aesthetic revolutions and political upheavals as well as the violent mechanisms behind the (re)fashioning of historical figures into myths, icons, and fallen idols. Furthermore, reflecting on issues of class, ethnicity, gender and national/regional identities will allow us to gain a more nuanced and deeply contextualized understanding of divergent voices emerging from spaces as diverse as Haiti, Mexico, Cuba, and Nicaragua. The primary corpus will consist of the writings by Mariano Azuella, Nellie Campobello, Elena Poniatowska, Sabina Berman, Alejo Carpentier, Jorge Edwards, Antonio Benítez Rojo, Wendy Guerra, Nancy Morejón, Guillermo Cabrera Infante, Heberto Padilla, Julio Cortázar, and Gioconda Belli, among others. The critical, theoretical, and documentary bibliography will include, but will not be limited to, excerpts from writings by Olympe du Gouges, C.L.R. James, Lizbeth Paravisini Gebert, Michel Rolph Trouillot, Hannah Arendt, Michael Taussig, James C. Scott, Enrique Krauze, Fidel Castro, Che Guevara, Roberto Fernández Retamar, Roberto Zurbarano, Rigoberta Menchú, Margaret Randall, and Zygmunt Bauman.

Credit 3 units.

SPAN 5760 The Global Sixties in Latin America: A Cultural History

The Long Sixties in Latin America (1959–1973) was a period of revolutionary upheaval and the rapid spread of capitalist modernity, marked by profound cultural and political transformations. This seminar invites students to engage critically with the historical and cultural forces that defined an era of transformation and its enduring legacies in Latin America. The Cuban Revolution, the rise of student movements, and the expansion of mass media and consumer culture shaped cultural production and political, aesthetic, and intellectual debates in the region in contradictory ways: Latin Americanism clashed with the Americanization of Life; autochthonism contested mass culture; radical aesthetics denounced artistic formalism; counterculture suspected the established male intellectual elite. Through a cultural history lens, the course begins with a survey of the era's political, cultural, and social dimensions—Cold War geopolitics, decolonization, and the intersections of modernity and modernization. Students will then delve into four thematic units: 1) The Republic of Letters: Exploring the Boom, the role of literature, and transnational journals and publishing networks; 2) The Factographic Form: Investigating experimental films, the *testimonio* genre, and revolutionary poetry; 3) Mass Media, Modernity, and the Popular: Analyzing comics, visual culture, the *nueva canción*, and debates on popular culture and technology; and 4) Streets, Posters, and Theater: Studying public spaces as sites of cultural and political expression. Each unit incorporates five key dimensions in cultural analysis: form, media, institutions, materiality, and historicity. Course materials feature works by Franz Fanon, Ángel Rama, Gabriel García Márquez, José María Arguedas, Jean-Paul Sartre, Che Guevara, Santiago Álvarez, Fernando Solanas, Octavio Getino, Glauber Rocha, and contributions from the Tricontinental Alliance.

Credit 3 units.

Typical periods offered: Fall

SPAN 5770 The Fabric of Memory

In this seminar, we will critically examine how specific historical events from the twentieth- and twenty-first centuries appear documented and transformed as they circulate between oral narratives, journalism, archives, memoirs, literature, film, visual culture, and sound. In the first part of the course, we will examine approaches to the production of memory; in the second part we will consider several case studies from the Hispanophone world; all materials are available in translation. Among others, we will discuss Cristina Rivera's Garza search for justice for her sister in *Liliana's Invincible Summer*, a crime committed in 1928 in Níjar (Andalusia), which then became the source of Federico García Lorca's *Blood Wedding*, a flamenco choreography and two films; clandestine border crossings; or the atrocities committed in a detention site in Santiago de Chile. We will pay close attention to genre and form in relation to theoretical perspectives on memory, voice, and agency.

Credit 3 units.

Typical periods offered: Fall

SPAN 5900 Dissertation

Original investigation research experience designed by student to prepare for completing proposed research, public defense, and publication of dissertation as based on student's substantive areas of interest and program of research.

Credit 12 units.

SPAN 5910 Studies in Spanish-American Literature

This course plays with literary explorations of the philosophy of the subject, concentrating on close readings of the art and artifice "the fiction" of selves. We will juxtapose 20th and 21st century literary texts, canonical and "contracanonical," in order to destabilize assumptions about a unified development of such fictive selves. At the same time, we will read relevant theoretical material which will both question and be questioned by the processes of subjectification and the elision of subjectification in the literature.

This "fugue," then, understood as both composition and flight, anticipates the notion that literary selves are made through a sort of counterpoint, which will serve us as an organizing metaphor for the critical task: we will approach an understanding of the compositional, constructed nature of subjectivity through the examination of how literature's polyphony is usually read to create the illusion of unison --and yet how in reading multiplicity, as in listening to a piece of music or viewing a diagram, we can also recognize our own participation in seeing, hearing or being told that which "is represented." We will also dwell for a while in the thematic relationship of literature-music explored in various texts, in which moments such counterpoint is made explicit. Readings may include works by Clarice Lispector, Felisberto Hernández, Horacio Quiroga, Julio Cortázar, Subcomandante Marcos, Roberto Bolaño, Gabriela Massuh, Roberto Arlt, Héctor Abad Faciolince, Diamela Eltit, Pedro Juan Gutiérrez, Mario Bellatín and others.

Credit 3 units.

SPAN 5990 Latin American Narrative in the 21st Century

This course explores new directions in Latin American narrative, examining novels published in the last 5 years by both established and new writers. The course will focus on science, technology and the literary expression of a posthuman Latin American identity. Other themes will include: Neoliberalism, Latin American literature and/ in the global market, and Latin America and Empire. Theoretical readings include Hayles, Negri & Hardt, and Masiello. Novels by Piglia, Giardinelli, Prado Bassi, Volpi, Paz-Soldán, and Rojas among others.

Credit 3 units.

SPAN 5999 Independent Study

Prerequisites: Senior or graduate standing and permission of the chair of the department.

Credit 3 units.

Typical periods offered: Fall, Spring

SPAN 6996 Hispanic Languages & Literatures Elective (GRAD)

Credit 0 units. EN: H

SPAN 8800 Doctoral Resident

Dissertation research.

Credit 0 units.

SPAN 8830 Master's Continuing Student Status

Dissertation research.

Credit 0 units.

SPAN 8840 Doctoral Continuing Student Status

Dissertation research.

Credit 0 units.

SPAN 8850 Masters Nonresident

Dissertation research.

Credit 0 units.

SPAN 8860 Doctoral Nonresident

Dissertation research.

Credit 0 units.

SPAN 8870 Masters Resident

Dissertation research.

Credit 0 units.

French and Francophone Studies, PhD

Phone: 314-935-5175

Email: rl@wustl.edu

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36 for all graduate students
- **Degree Length:** Five years for all graduate students
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students need to take courses for a letter grade and earn a B or better, with a B average overall.

Optional pedagogical or interdisciplinary study can be acquired by means of one of the graduate certificate programs in Arts & Sciences.

Students in the PhD in French and Francophone Studies program take courses in all areas of French and Francophone studies, as well as a number of courses in a related secondary field of their choice, for a total of 36 units (of which students entering with an MA may transfer 6 units) at the graduate level. 6 of the 36 units may count toward a graduate certificate or the Joint PhD with Comparative Literature. During their third semester, students take the MA exam. During their fifth semester, students take the PhD exam, for which they submit proposed syllabi for a two-semester sequence of undergraduate literature courses and two qualifying papers (potentially publishable articles of 25 pages, revised from seminar papers in two different periods). An oral exam by the entire faculty, based on these submissions, will follow. Students further defend their dissertation prospectuses before their thesis committees of three faculty members. They then have approximately two years to complete the research and writing of their dissertations, which they defend during the last semester of their programs.

Secondary Language Requirement

Students must demonstrate reading knowledge of one foreign language other than French or English that pertains to their proposed area of dissertation research.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program,

which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-Candidacy Requirements for French and Francophone Studies

- Completion of required coursework
- Completion of doctoral exams
- Completion and defense of dissertation prospectus before the Research Advisory Committee
- Submission of Title, Scope, and Procedure Form

Students must complete all pre-candidacy requirements and advance to doctoral candidacy by the beginning of their seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience

Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching development for graduate students in the Department of Romance Languages and Literatures features a supervised, comprehensive, and systematic apprenticeship in the theory and practice of teaching Romance languages. We aim to prepare students for careers in or beyond the academy as we train excellent scholars, mentors, and colleagues. We require Mentored Experiences of all full-time doctoral students. These take the form of Mentored Independent Teaching (MIT) and Assistant in Instruction (AI) experiences as well as Mentored Professional Experiences (MPEs).

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Required before AI:

- Teaching orientation from the Center for Teaching and Learning

Required during AI:

- Seminar on second language pedagogy *before or during* the AI (listed under the Graduate Certificate in Language Instruction)
- Practicum in second language classroom practices *during* the first semester of the AI, offered by a member of the French faculty.

Recommended:

- English Language Program classes provide valuable pre-professional training, including classroom and conference presentations. Targeted English language coursework for second-language teaching (e.g., U15 4700 Language, Culture, and Interaction Strategies for Instruction) may be helpful.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students are required to complete AI experiences two or three times for 10 MER units per assignment for a total of 10 to 30 MER units. How many times a student will complete an AI experience is dependent upon how many times they are assigned to MIT.

- AIs assist with course development, instruction, and assessment.
- The faculty instructor provides mentoring, observes the graduate student's teaching one to two times each semester, and provides guidance and feedback.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students can expect to complete four MIT and two AI experiences (or three of each) within or outside the program, with the option of replacing one or one of each with an MPE. Graduate students completing certificates may have opportunities to shadow and teach under the auspices of another program (e.g., in Women, Gender, and Sexuality Studies or in Film Studies).

Students participating in MITs will teach FRENCH 1010 French Level 1: Essential French 1, FRENCH 1020 French Level 2: Essential French 2, FRENCH 2030 Intermediate French 1, FRENCH 2040 Intermediate French 2, or FRENCH 3070 Cultural Expression. Repeat assignments are permitted to enable them to improve; we expect that students will teach at least two different levels during the course of their program at Washington University. The assignments will depend on the department's curricular needs at the undergraduate level. Course coordinators, who oversee a team of instructors, provide mentoring. Graduate students may observe their coordinator and are themselves

observed one to two times per semester so that they may be provided with feedback on their teaching. In addition, coordinators discuss and provide a brief assessment report identifying strengths, weaknesses, and suggestions for improvement for the student's file at the end of the semester.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students may opt to take one or two semester-long MPEs in place of an MTE, an AI, or one of each. MPE activities may be anything other than classroom teaching of traditional-aged students at a private university or college. Some could still be in the area of teaching, for example, in a secondary school or community college. Others could be in our internship program in university administration, Overseas Programs, Olin Library, or as an editor's assistant. We also encourage students to seek opportunities in museum settings (e.g., at the Saint Louis Art Museum, the Mildred Lane Kemper Art Museum, or the Pulitzer Arts Foundation) or any other supervised position in the "public humanities" (e.g., at the Missouri Historical Society Library & Research Center or the sites and archives in Ste. Genevieve, MO). The scope of these assignments is determined in consultation with the Director of Graduate Studies. Students meet regularly with their MPE mentors throughout the duration of the experience. Students submit a self-reflection and mentors submit an assessment at the end.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students are required to complete 90 to 110 MER Units. Students can expect to complete four MIT and two AI experiences (or three of each), with the option of replacing one or one of each with an MPE.

Pathway #1

ASGS 8010	Take three times
ASGS 8020	Take three times

Pathway #2

ASGS 8010	Take two times
ASGS 8020	Take four times

Pathway #3

ASGS 8010	Take two times
ASGS 8020	Take three times
ASGS 8120	Take one time

Pathway #4

ASGS 8010	Take one time
ASGS 8020	Take four times
ASGS 8120	Take one time

Pathway #5

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take two times

French and Francophone Studies and Comparative Literature, PhD

Contact:

Contact info to come

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 42 for all graduate students
- **Degree Length:** Five years for all graduate students
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- The dual PhD degree in French and Francophone Studies and Comparative Literature requires the study of French and Francophone literature and culture, over the course of which the student virtually duplicates the courses and other preparations expected of a doctoral candidate in French and Francophone Studies. In addition, students complete the 12-unit core requirement for the Comparative Literature PhD program, which includes COMPLITHT 5200 Introduction to Comparative Literature. For a description of this core, please review the requirements for the PhD in Comparative Literature (p. 167).
- **Grade Requirement:** Students need to take courses for a letter grade and earn a B or better, with a B average overall.

PhD in French and Francophone Studies and Comparative Literature

The dual PhD programs require a focus on a "home" literature, in which the student normally duplicates the courses and other preparations expected of a doctoral candidate in that literature or program. This focus is combined with training in approaches, methods, and theories offered by the program in Comparative Literature and articulated by its core requirements. It is expected that students in the dual programs include one or more comparatist elements in their comprehensive examinations and dissertation. Requirements in the home departments vary.

The dual degree student must in any case complete a minimum of 12 units of coursework in Comparative Literature: the 12-unit core requirements for the comparative literature program. These core requirements include COMPLITHT 5200 Introduction to Comparative Literature and three additional Comparative Literature courses (3 units each) distributed among three of four designated categories. 6 of these units may count toward the 36 units required for the PhD in French and Francophone Studies.

Upon joining the dual degree program, students must be competent in a minimum of two languages pertinent to their work and their objectives. They must also meet the language requirements of the department in which the primary literature program is located. After joining the program, students have the possibility of acquiring reading knowledge of an additional language pertinent to their dissertation work.

Required Courses

- Four courses comprising the Comparative Literature core requirement, including COMPLITHT 5200 Introduction to Comparative Literature and three additional courses distributed among designated categories (refer to the PhD in Comparative Literature (p. 167) for the listing of designated categories). 6 of these units may count toward the units required for the PhD in French and Francophone studies.
- Courses as required for the PhD in French and Francophone Studies (refer to the PhD in French and Francophone Studies (p. 449) for the listing of course requirements).
- Language Requirements:
 - Upon joining the dual degree program, students must be competent in a minimum of two languages pertinent to their work and their objectives. Both languages will be evaluated by an expert in each language.
 - Students must also meet the language requirements of the department in which the primary literature program is located.
- Qualifying Examinations:
 - Comparative Literature PhD dual degree students will take the comprehensive examinations required in French and Francophone Studies. At least one of these examinations must entail a comparatist element; this element is to be identified and negotiated with the examination committee, which will include at least one faculty member representing Comparative Literature.
- Dissertation Committee:
 - The dissertation committee should include at least one faculty member representing Comparative Literature. The dissertation itself should — in its theoretical grounding, approach, transnational or transcultural scope, and/or interdisciplinarity — speak to the field of Comparative Literature as currently constituted.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program,

which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy Requirements

The following are the pre-candidacy requirements for French and Francophone Studies and Comparative Literature:

- Completion of required coursework
- Completion of doctoral exams
- Completion and defense of dissertation prospectus before the Research Advisory Committee
- Submission of Title, Scope, and Procedure Form

Students must complete all pre-candidacy requirements and advance to doctoral candidacy by the beginning of their seventh semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE -

Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/ scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.

3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way

Graduate students who enter the PhD program without a master's degree will acquire a master's degree along the way once they complete 30 units of coursework and take the MA exam by the end of their third semester of the PhD program.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching development for graduate students in the Department of Romance Languages and Literatures features a supervised, comprehensive, and systematic apprenticeship in the theory and practice of teaching Romance languages. We aim to prepare students for careers in or beyond the academy as we train excellent scholars, mentors, and colleagues. We require Mentored Experiences of all full-time doctoral students. These take the form of Mentored Independent Teaching (MIT) and Assistant in Instruction (AI) experiences as well as Mentored Professional Experiences (MPEs).

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Required before AI:

- Teaching orientation from the Center for Teaching and Learning

Required during AI:

- Seminar on second language pedagogy *before or during* the AI (listed under the Graduate Certificate in Language Instruction)
- Practicum in second language classroom practices *during* the first semester of the AI, offered by a member of the French faculty.

Recommended:

- English Language Program classes provide valuable pre-professional training, including classroom and conference presentations. Targeted English language coursework for second-language teaching (e.g., U15 4700 Language, Culture, and Interaction Strategies for Instruction) may be helpful.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students are required to complete AI experiences two or three times for 10 MER units per assignment for a total of 10 to 30 MER units. How many times a student will complete an AI experience is dependent upon how many times they are assigned to MIT.

- AIs assist with course development, instruction, and assessment.
- The faculty instructor provides mentoring, observes the graduate student's teaching one to two times each semester, and provides guidance and feedback.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students can expect to complete four MIT and two AI experiences (or three of each) within or outside the program, with the option of replacing one or one of each with an MPE. Graduate students completing certificates may have opportunities to shadow and teach under the auspices of another program (e.g., in Women, Gender, and Sexuality Studies or in Film Studies).

Students participating in MITs will teach FRENCH 1010 French Level 1: Essential French 1, FRENCH 1020 French Level 2: Essential French 2, FRENCH 2030 Intermediate French 1, FRENCH 2040 Intermediate French 2, or FRENCH 3070 Cultural Expression. Repeat assignments

are permitted to enable them to improve; we expect that students will teach at least two different levels during the course of their program at Washington University. The assignments will depend on the department's curricular needs at the undergraduate level. Course coordinators, who oversee a team of instructors, provide mentoring. Graduate students may observe their coordinator and are themselves observed one to two times per semester so that they may be provided with feedback on their teaching. In addition, coordinators discuss and provide a brief assessment report identifying strengths, weaknesses, and suggestions for improvement for the student's file at the end of the semester.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students may opt to take one or two semester-long MPEs in place of an MTE, an AI, or one of each. MPE activities may be anything other than classroom teaching of traditional-aged students at a private university or college. Some could still be in the area of teaching, for example, in a secondary school or community college. Others could be in our internship program in university administration, Overseas Programs, Olin Library, or as an editor's assistant. We also encourage students to seek opportunities in museum settings (e.g., at the Saint Louis Art Museum, the Mildred Lane Kemper Art Museum, or the Pulitzer Arts Foundation) or any other supervised position in the "public humanities" (e.g., at the Missouri Historical Society Library & Research Center or the sites and archives in Ste. Genevieve, MO). The scope of these assignments is determined in consultation with the Director of Graduate Studies. Students meet regularly with their MPE mentors throughout the duration of the experience. Students submit a self-reflection and mentors submit an assessment at the end.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students are required to complete 90 to 110 MER Units. Students can expect to complete four MIT and two AI experiences (or three of each), with the option of replacing one or one of each with an MPE.

Pathway #1

ASGS 8010	Take three times
ASGS 8020	Take three times

Pathway #2

ASGS 8010	Take two times
ASGS 8020	Take four times

Pathway #3

ASGS 8010	Take two times
ASGS 8020	Take three times
ASGS 8120	Take one time

Pathway #4

ASGS 8010	Take one time
ASGS 8020	Take four times
ASGS 8120	Take one time

Pathway #5

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take two times

Hispanic Studies, PhD

Phone: 314-935-5175

Email: rll@wustl.edu

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 36
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students need to take these courses for a letter grade and earn a B– or better, with a B average overall, per departmental requirements.

Optional pedagogical or interdisciplinary study can be acquired by means of one of the graduate certificate programs in Arts & Sciences.

PhD in Hispanic Studies

Students in the PhD in Hispanic Studies program take courses in all areas of Latin American and Iberian studies. During the fifth semester, students take comprehensive exams from among the three options offered to them. After passing their comprehensive exams, students submit and defend a dissertation prospectus. Students then research, write, defend, and submit their doctoral dissertation. Details of the program stages and requirements are available on the Hispanic Studies Graduate Programs page of the Romance Languages and Literatures website.

Required Courses

Students must complete 12 courses. Ten courses must be offered by the Hispanic Studies program, including one independent study course (SPAN 5999 Independent Study). The other two courses must be 5000-level cross-departmental seminars (skill-based or A&S CREATES courses) or courses from outside of Hispanic Studies.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-candidacy Requirements

The following are the pre-candidacy requirements for Hispanic Studies:

- Completion of required coursework
- Completion of doctoral exams
- Completion and defense of dissertation prospectus

Hispanic Studies students must complete all pre-candidacy requirements and advance to doctoral candidacy by the end of their sixth semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

A master's degree in Hispanic Studies in lieu of a PhD can be offered to students enrolled in the Hispanic Studies program who have completed 36 credits of required Hispanic Studies coursework and passed their comprehensive exams.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching development for graduate students in Hispanic Studies features a comprehensive and systematic apprenticeship in the theory and practice of teaching Romance Languages with ample supervision throughout. The goal of the Mentored Experience is to prepare students for an academic career or for a career outside academia.

Students in Hispanic Studies begin fulfilling their MER in year 1 and usually complete the requirement by the beginning of their fourth year in the program.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Students will participate in the following preparatory engagement activities:

1. Teaching Orientation for those beginning the Mentored Teaching Experience (MTE). This is an intensive one-week program in August prior to the opening of classes.
2. A mentorship program during the first teaching semester for those beginning the Mentored Teaching Experience (MTE). This mentorship offers training in second language acquisition and provides a space for students to discuss their language instruction experience and day-to-day challenges.
3. An optional one-semester course on contemporary Spanish language teaching. Seminar topics may include an overview of second language acquisition theories; historical and contemporary teaching methodologies; integration of technology into curriculum; issues in testing and assessment; and working with Heritage-language learners.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students are required to complete one AI assignment at 10 MER units. AIs assist with course development, instruction, and assessment. AIs may have the opportunity to teach up to three times or 10% of the course contact hours. The faculty instructor provides mentoring, observes the graduate student's teaching one or two times a semester, and provides written feedback to the student and the Director of Graduate Studies.

The assistant in instruction experience will be completed in 3200-, 3600-, and 4000-level courses taught in the Hispanic Studies section.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

All students will complete two or three MIT assignments at 20 MER units each, dependent upon if they take one or two MPEs.

All first-year PhD students participating in an MTE are team members of multi-sectional language courses under faculty supervision. This includes observations, consultations, and written commentary. Mid-career graduate students have exposure to teaching at several levels, primarily in multi-sectioned courses. At all times, graduate students work under faculty supervision with frequent consultation. They have opportunities to plan curricular units, develop assignments, evaluate students, and begin teaching literary and cultural analysis.

This teaching experience usually includes a range of language learning courses, from the 1000 to 3000 levels. Advanced students may also be invited to participate in the teaching of a literary and culture course that they design and develop.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students are required to complete at least one MPE for 20 MER units and may opt to take one additional MPE for another 20 MER units, dependent upon if they take two or three MITs.

Prior to beginning an MPE, the mentor and the student will agree on a set of expectations for the position. These expectations will include the number of hours of engagement per week, which may vary but must amount to a total engagement time of 150 to 180 hours. A student may not do an MTE and MPE in the same semester. There are many innovative ways in which students may fulfill a Mentored Experience requirement with a Mentored Professional Experience (MPE). One example is as an editorial assistant for the *Revista de Estudios Hispanicos*, one of the world's top five journals in Hispanic Studies that our department publishes. Internships at think tanks in the United States, Spain, or Latin America could provide another opportunity for an MPE. Likewise, students could fulfill an MPE with humanities or arts organizations locally or beyond St. Louis or by connecting with units on campus such those listed below. All of these options would expand the opportunities for our students to gain experience in areas of higher education/humanities work, though not in the classroom per se, and thus enhance their professional profile and portfolio.

Examples of on-campus MPE opportunities include the Career Center, the Center for Diversity & Inclusion, the Kemper Art Museum, Overseas Programs, and the WashU Libraries. Examples of local off-campus opportunities include Casa de Salud, the Interfaith Committee on Latin America, the International Institute of St. Louis, Laumeier

Sculpture Park, Missouri History Museum, the Migrant and Immigrant Community Action (MICA) Project, MIRA (Missouri Immigrant & Refugees Advocates), the Missouri Humanities Council, and the Regional Arts Commission.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Pathway #1

ASGS 8010	Take one time
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #2

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take one time

Hispanic Studies and Comparative Literature, PhD

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 48
- **Degree Length:** Five years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
 - The dual PhD degree in Hispanic Studies and Comparative Literature requires the study of Hispanic Studies literature and culture, over the course of which the student virtually duplicates the courses and other preparations expected of a doctoral candidate in Hispanic Studies. In addition, students complete the 12-unit core requirement for the Comparative Literature PhD program, which includes COMPLITHT 5200 Introduction to Comparative Literature and at least one course in any three of the four categories (Transcultural Studies; Translation Studies; Literature, Politics, and Society; and Media Ecologies, Media Histories, Media Poetics), one of which must be a 5000-level seminar with Comparative Literature. For a description of this core, please review the requirements for the PhD in Comparative Literature (p. 167).
 - **Grade Requirement:** Students must obtain a minimum grade of B– in graduate courses for them to count toward the degree. Students are expected to maintain a cumulative grade point average of 3.0 on a 4.0 scale.

PhD in Hispanic Studies and Comparative Literature

The dual PhD programs require a focus on a "home" literature, in which the student normally duplicates the courses and other preparations expected of a doctoral candidate in that literature or program. This focus is combined with training in approaches, methods, and theories offered by the program in Comparative Literature and articulated by its core requirements. It is expected that students in the dual programs include one or more comparatist elements in their comprehensive examinations and dissertation. Requirements in the home departments vary.

The dual degree student must in any case complete a minimum of 12 units of course work in Comparative Literature: the 12-unit core requirements for the comparative literature program. These core requirements include COMPLITHT 5200 Introduction to Comparative Literature and three additional Comparative Literature courses (3 units each) distributed among three of four designated categories.

Upon joining the dual degree program, students must be competent in a minimum of two languages pertinent to their work and their objectives. They must also meet the language requirements of the department in which the primary literature program is located. After joining the program, students have the possibility of acquiring reading knowledge of an additional language pertinent to their dissertation work.

Required Courses

- Students complete the 12-unit core requirement for the Comparative Literature PhD program, including COMPLITHT 5200 Introduction to Comparative Literature and at least one course in any three of the four categories (Transcultural Studies; Translation Studies; Literature, Politics, and Society; and Media Ecologies, Media Histories, Media Poetics), one of which must be a 5000-level seminar with Comparative Literature. Consult the PhD in Comparative Literature (p. 167) for more information about the requirements for that program.
- Courses as required for the PhD in Hispanic Studies: 36 Hispanic Studies units (12 courses, including one independent [SPAN 5999 Independent Study] and two cross-departmental (skill-based/ CREATES) or seminars from outside of Hispanic Studies. (Refer to the PhD in Hispanic Studies (p. 458) for the listing of course requirements.)

Language Requirements

- Upon joining the dual degree program, students must be competent in a minimum of two languages pertinent to their work and their objectives. Proficiency in both languages will be evaluated by an expert in each language.
- Students must also meet the language requirements of the department in which the primary literature program is located.

Qualifying Examinations

- Comparative Literature PhD dual degree students will take the comprehensive examinations required in Hispanic Studies. At least one of these examinations must entail a comparatist element; this element is to be identified and negotiated with the examination committee, which will include at least one faculty member representing Comparative Literature.

Dissertation Committee

- The dissertation committee should include at least one faculty member representing Comparative Literature. The dissertation itself should — in its theoretical grounding, approach, transnational or transcultural scope, and/or interdisciplinarity — speak to the field of Comparative Literature as currently constituted.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Pre-Candidacy Requirements

The pre-candidacy requirements for Hispanic Studies and Comparative Literature are as follows:

- Completion of required coursework
- Completion of doctoral exams
- Completion and defense of dissertation prospectus

Hispanic Studies students must complete all pre-candidacy requirements and advance to doctoral candidacy by the end of their sixth semester.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established

Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All

members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.

2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate



Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

A master's degree in Hispanic Studies in lieu of a PhD can be offered to students enrolled in the dual Hispanic Studies and Comparative Literature PhD program who have completed 36 credits of required Hispanic Studies coursework and passed their comprehensive exams.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Teaching development for graduate students in Hispanic Studies features a comprehensive and systematic apprenticeship in the theory and practice of teaching Romance Languages with ample supervision throughout. The goal of the Mentored Experience is to prepare students for an academic career or for a career outside academia.

Students in Hispanic Studies begin fulfilling their MER in year 1 and usually complete the requirement by the beginning of their fourth year in the program.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Students will participate in the following preparatory engagement activities:

1. Teaching Orientation for those beginning the Mentored Teaching Experience (MTE). This is an intensive one-week program in August prior to the opening of classes.
2. A mentorship program during the first teaching semester for those beginning the Mentored Teaching Experience (MTE). This mentorship offers training in second language acquisition and provides a space for students to discuss their language instruction experience and day-to-day challenges.
3. An optional one-semester course on contemporary Spanish language teaching. Seminar topics may include an overview of second language acquisition theories; historical and contemporary teaching methodologies; integration of technology into curriculum; issues in testing and assessment; and working with Heritage-language learners.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students are required to do one AI assignment at 10 MER units. AIs assist with course development, instruction, and assessment. AIs may have the opportunity to teach up to three times or 10% of the course contact hours. The faculty instructor provides mentoring, observes the graduate student's teaching one or two times a semester, and provides written feedback to the student and the Director of Graduate Studies.

The assistant in instruction experience will be completed in 3200-, 3600-, and 4000-level courses taught in the Hispanic Studies section.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

All students will complete two or three MIT assignments at 20 MER units each, dependent upon if they take one or two MPEs.

All first-year PhD students participating in an MTE are team members of multi-sectional language courses under faculty supervision. This includes observations, consultations, and written commentary. Mid-career graduate students have exposure to teaching at several levels, primarily in multi-sectioned courses. At all times, graduate students work under faculty supervision with frequent consultation. They have opportunities to plan curricular units, develop assignments, evaluate students, and begin teaching literary and cultural analysis.

This teaching experience usually includes a range of language learning courses, from the 1000 to 3000 levels. Advanced students may also be invited to participate in the teaching of a literary and culture course that they design and develop.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Students are required to complete at least one MPE for 20 MER units and may opt to take one additional MPE for another 20 MER units, dependent upon if they take two or three MITs.

Prior to beginning an MPE, the mentor and the student will agree on a set of expectations for the position. These expectations will include the number of hours of engagement per week, which may vary but must amount to a total engagement time of 150 to 180 hours. A student may not do an MTE and MPE in the same semester. There are many innovative ways in which students may fulfill a Mentored Experience requirement with a Mentored Professional Experience (MPE). One example is as an editorial assistant for the *Revista de Estudios Hispanicos*, one of the world's top five journals in Hispanic Studies that our department publishes. Internships at think tanks in the United States, Spain, or Latin America could provide another opportunity for an MPE. Likewise, students could fulfill an MPE with humanities or arts organizations locally or beyond St. Louis or by connecting with units on campus such those listed below. All of these options would expand the opportunities for our students to gain experience in areas of higher education/humanities work, though not in the classroom per se, and thus enhance their professional profile and portfolio. Examples of on-campus MPE opportunities include the Career Center, the Center for Diversity & Inclusion, the Kemper Art Museum, Overseas Programs, and the WashU Libraries.

Examples of local off-campus opportunities include Casa de Salud, the Interfaith Committee on Latin America, the International Institute of St. Louis, Laumeier Sculpture Park, Missouri History Museum, the Migrant and Immigrant Community Action (MICA) Project, MIRA (Missouri Immigrant & Refugees Advocates), the Missouri Humanities Council, and the Regional Arts Commission.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Pathway #1

ASGS 8010	Take one time
ASGS 8020	Take two times
ASGS 8120	Take two times

Pathway #2

ASGS 8010	Take one time
ASGS 8020	Take three times
ASGS 8120	Take one time

Language Instruction, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.



Program Requirements

- **Total Units Required:** 15
- **Certificate Length:** To be completed by end of student's PhD program
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** Students need to take courses for a letter grade and earn a B– or better, with a B average overall.

Required Courses

- 15 units of credit — one course from each of the following groups — are required:
 1. Language Teaching Methodology (SPAN 5010 Seminar in Teaching of Romance Languages) or the equivalent in another department for students of that language
 2. Linguistics and Language Learning (APL 5111 Linguistics and Language Learning) or other approved equivalent
 3. Second Language Acquisition (LING 5062 Second-Language Acquisition) or other approved equivalent
- Two of the following elective courses are required:
 1. Reading and Writing in a Second Language (APL 5692 Reading Across Languages and Cultures: Theory, Research and Practice)
 2. Grammar and Vocabulary Acquisition (SPAN 5670 Grammar and Vocabulary Acquisition)
 3. Phonology and Second Language Acquisition (SPAN 5170 Spanish Phonetics, Phonology, and Dialectology)
 4. Second Language Acquisition and Technology (APL 5023 Second-Language Acquisition and Technology)

Students need to take these courses for a letter grade and earn a B– or better, with a B average overall.

Origin and Purpose

The Graduate Certificate in Language Instruction is an interdisciplinary certificate related to the fields of applied linguistics, second language acquisition, psychology, neuroscience, and other disciplines that has important implications for the way we teach foreign languages. Study within these different fields provides a fascinating examination of the way that second languages (L2) are learned and how second language is generated by learners. An understanding of second language

acquisition processes both enriches our knowledge of how the mind works and serves to better inform the ways that foreign language teachers design and implement curricular approaches for different levels and skills.

Program Details

Students must apply to be considered for the certificate program and will be evaluated by a faculty committee, twice a year, on approximately October 15 and March 15. (The committee is made up of co-directors and graduate directors of participating departments.) The certificate consists of five courses: three required courses and two electives. This application is submitted at the beginning of the student's doctoral coursework. Master's degree students are not eligible for consideration.

The goal of the five-course sequence is to provide certificate students with a solid base in the theoretical and instructional implications of research on language acquisition across different linguistic subsystems (phonology, lexis, syntax, pragmatics) and different linguistic modalities (spoken and written). This formation will also prepare students to be involved in language program design and curricular development.

To provide our graduate students with additional qualifications and formal development that will make them strongly prepared for a range of demanding academic positions, the Department of Romance Languages and Literatures offers the Graduate Certificate in Language Instruction for students enrolled in PhD programs at Washington University.

For more information, visit the Graduate Certificate in Language Instruction page of the Department of Romance Languages and Literatures website, contact Professor Joe Barcroft, or call 314-935-5175.

Phone: 314-935-5175

Email: rl@wustl.edu

Sociology

The Department of Sociology employs a range of methodological approaches to understand the origins and reproduction of social inequality and apply that knowledge to address issues of pressing public concern. Re-established in 2020, our graduate program prepares its students for active careers in scholarly research and teaching as well as public engagement, with a primary focus on the fields of race/ethnicity, community and urban sociology, gender and the family, work and organizations, immigration, policing and criminal justice, and political sociology and social movements. Graduate students work closely with our faculty in mentoring and collaborative relationships that encourage students' production and publication of original research and that prepare them for careers as experts in their subfields. By equipping our students with a broad set of theoretical perspectives, methodological skills, and professional experiences, the Department of Sociology sets the groundwork for our graduates to make major contributions to the discipline and to society at large.

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Faculty

Chair

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PhD, Stanford University

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Director of Undergraduate Studies

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Law

Mark Rank

Herbert S. Hadley Professor of Social Welfare
PhD, University of Wisconsin, Madison
Social Work

Allison S. Reed

Assistant Professor
PhD, University of Chicago
Women, Gender, and Sexuality Studies

Henry Roediger

Professor Emeritus
PhD, Yale University
Psychological and Brain Sciences

Geoff Ward

Professor
PhD, University of Michigan
African and African American Studies

Degree Requirements

- Sociology, PhD (p. 473)

Courses

SOC 5003 Independent Work

This course entails graduate-level independent study, usually involving directed readings supervised by a faculty mentor. The work in this course cannot be used to fulfill other program requirements, such as work on one's Mentored Research Collaboration, thesis, qualifying exam, dissertation proposal, or dissertation. Students and faculty should work together to establish course objectives, readings, assignments, and deadlines prior to registration. Students will be waitlisted, pending faculty confirmation. Prerequisite: graduate standing in the Department of Sociology.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5005 Sociological Foundations

This course has two interconnected goals: (1) introducing prominent questions, research programs, and methodological approaches in sociology and (2) orientating students to the department, the discipline, and the profession. By reading innovative work representative of the major strands of scholarship at WashU, students will have a chance to think creatively about where they fit in the discipline: what questions, assumptions, or arguments need further scrutiny, and how they might productively engage in central debates in the field through their own emerging research. In addition, this course will demystify various aspects of the academy and provide tips for navigating graduate school and beyond including the hidden curriculum of graduate school, developing strong collaborations, applying for external grants and fellowships, communicating research, and preparing for different careers. This course is open only to first-year Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall

SOC 5010 Sociology Professional Development

This course serves as an introduction to professional socialization for first-year Sociology graduate students. In addition to orienting students to the department and the discipline, the course will demystify various aspects of the academy and provide tips for navigating graduate school and beyond. Sample topics include: the hidden curriculum of graduate school; being a good colleague and advisee; professional organizations; managing references; reading articles and books; research ethics; applying for external grants and fellowships; developing CV's; giving effective research presentations; the publication process; attending academic conferences; professional networking; public engagement and social media; and preparing for different types of jobs and job markets. This course is open only to graduate students in Sociology.

Credit 1 unit.

Typical periods offered: Fall

SOC 5020 Research in Sociology

Students will conduct individual research in collaboration with and under the supervision of an assigned faculty mentor. This course aims to familiarize graduate students with the research and publication process, in addition to providing informal professional socialization during their early years within the department's PhD program. Students must register for the section assigned to their respective faculty member, and consult with their faculty member about course requirements and research expectations prior to enrollment. Students must successfully complete three semesters of the course to fulfill graduate program requirements; however, the collaborations and relationships forged within this course sequence are strongly encouraged to continue well past students' required enrollment. This course is open only to Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5030 Quantitative Methods I

This is the first class in sociology's required two-course graduate quantitative methods sequence. This course is designed to help sociology PhD students develop a strong base in statistical methods. Starting from basic math, students will build up a foundation for linear regression and its application to causal inference. Students will also learn how to use STATA to conduct replicable and reliable analyses. The course is focused on the tools needed to do research as a PhD-level sociologist and draws examples from across the social sciences. Students can take this course both as a introductory course in linear regression or as a deeper dive into regression than what is learned in a typical undergraduate statistics sequence. Prerequisite: graduate standing; priority enrollment will be given to first- and second-year Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5031 Quantitative Methods II

This is the second course in the Department of Sociology's required two-course graduate quantitative methods sequence. This course is designed to assist sociology PhD students in understanding statistical methods with the goal of conducting independent and original quantitative research. Building on the first course of the graduate program's quantitative methods sequence, students will focus on extensions of standard linear regression models, including models for binary and categorical outcomes and analysis of panel data. Good quantitative social science research requires not only understanding statistical methods but also training in how to manage data and code, assess the robustness of results, connect theory and

statistical practice, and interpret findings. The course emphasizes both understanding statistical methods and applying those methods in empirical research. Prerequisites: graduate standing and either successful completion of SOC 5050 - OR - consent of the instructor. Priority enrollment will be given to first- and second-year Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5040 Qualitative Methods

This course is an in-depth examination of qualitative research methods in sociology. The goals of this course are as follows: (1) to examine the epistemology, politics, practice, and ethics of qualitative methods; (2) to explore the strengths and limitations of these approaches; and (3) to develop the skills to design, collect, analyze, and write using qualitative data. Students will read exemplary canonical and contemporary books and articles that use a variety of qualitative methods. Students will learn to evaluate how different researchers approach developing research questions, field site and case study selection, gaining entree, building rapport and trust, note taking and audio recording, the nuts and bolts of conducting interviews and observation, and reflexivity in the field, among other topics. Students will gain hands-on experience with interview and field observation techniques, data analysis, and writing. By the end of the course, students will possess the skills necessary to independently design and undertake a rigorous qualitative research project from conception to write-up as well as the ability to evaluate qualitative studies conducted by others. Prerequisite: graduate standing. Priority enrollment will be given to first- and second-year Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5045 Advanced Qualitative Methods

This course is a hands-on workshop for analyzing qualitative data and writing up findings. To take this class, students must have taken a graduate-level qualitative methods course. Students should begin the semester having gathered some data for their projects and should come prepared to analyze it. We will focus on improving research design, honing strategies for analyzing qualitative data, learning how to use qualitative coding software, and presenting findings. Students will also develop skills in giving high-quality peer feedback.

Credit 3 units.

Typical periods offered: Spring

SOC 5052 Research Design

This course covers the fundamentals of sociological research design, including the formation of research questions and testable hypotheses, the relationship between theory and empirical research, issues of measurement and sampling, the choice of appropriate data collection methods and analytic techniques, causal inference, assessment and critique of research, and the writing of research proposals. Emphasis is placed on principles that are applicable in various kinds of research, such as surveys, participant observation, comparative historical studies, experiments, qualitative interviews, and secondary data analysis. By the end of this course, students will have developed a concrete research proposal for their master's thesis. This course is open only to Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall

SOC 5120 Sociological Theory

This course provides the theoretical basis for advanced sociological inquiry. Students will engage with the works of both classical and contemporary authors, exploring their contributions to the discipline of sociology and fields adjacent to it. Open exclusively to first-year sociology graduate students.

Credit 3 units.

Typical periods offered: Fall

SOC 5130 Race, Ethnicity, and Migration

This course will explore theoretical and empirical analyses of race, ethnicity and migration through a sociological lens, focusing on children of immigrants and later-generation descendants of migrants in the United States. Students will compare the experiences and outcomes of various racial and ethnic groups, including whites/Europeans, Blacks/African-Americans, Latinos/Hispanics, and Asians, investigating how migration processes and patterns shape racial/ethnic group formations and inequalities. Examples of specific topics related to these issues include: assimilation; ethnic and racial identities; multiraciality; language; legality; intergroup relations; and education. This course will be taught in a seminar style where student engagement within class discussions is required and one's participation is central to the learning process. Prerequisite: successful completion of an introductory-level Sociology course or consent of the instructor. Graduate students should enroll in the 500-level offering.

Credit 3 units.

Typical periods offered: Spring

SOC 5210 Stratification

This course is a graduate-level seminar exploring the tools needed to analyze and understand processes of stratification fundamental to human organization. The course's emphasis will be upon institutions undergirding inequality in modern America, with a special focus on recent trends. The course will provide a survey of many major readings in stratification across the disciplines, and introduce various approaches and topics undertaken by contemporary stratification scholars. Prerequisite: graduate standing. Priority enrollment given to Sociology graduate students.

Credit 3 units.

Typical periods offered: Spring

SOC 5211 Race and Place

In this course, students will investigate the claim that race and place are mutually constitutive; that is, race shapes how people perceive and organize places, and places in turn shape understandings and experiences of race. This investigation will span time - from the beginning of colonization in North America to the present - and space - from rural communities to central cities. Students will use a primarily sociological lens, but will also draw insights from history, political science, demography, and philosophy. Topics of study include segregation, housing, the criminal legal system, schooling, work, and more. This seminar is an upper level course intended for advanced sociology majors and minors, as well as graduate students. Graduate students should enroll in the 500-level offering.

Credit 3 units. A&S IQ: SSC, SC EN: S

SOC 5212 Public Opinion: Sociological Perspectives

This seminar course will review contemporary research on public opinion about a wide range of political, social, and cultural issues, from an interdisciplinary perspective. It will primarily draw on recent studies in sociology but also from political science, social psychology, and economics. We will examine various issues related to the structures and changes in public opinion. Substantively, we will cover a wide range of topics, including partisan polarization in public opinion, nationalism, populism, intergroup attitudes, economic

inequality, moral and cultural issues among others. While much of the readings will focus on the case of the U.S., we will approach it from comparative perspectives. Additionally, we will discuss various methodological issues and recent advances related to measurement and analysis of public opinion. Research on public opinion is extensive and interdisciplinary, and the scope of this course is inevitably selective and limited. Our focus will be on the areas characterized by active ongoing scholarly conversations and/or some notable theoretical and methodological innovations. While there exists an extensive body of literature on public opinion utilizing diverse qualitative methods, some of which are incorporated into this course, our coverage will primarily revolve around survey-based research.

Credit 3 units.

Typical periods offered: Spring

SOC 5215 Work, Family, and Gender Inequality in the Contemporary U.S.

Despite dramatic increases in women's education and employment over the past century, progress toward gender equality in both the public and private sphere has slowed or stalled in recent decades. Drawing on research in sociology, economics, and demography, this course examines why gender inequality persists in the workplace and in family life. Students focus primarily on the contemporary U.S. context but also draw on historical and cross-national comparisons. In addition, the course considers the role of cultural norms and work-family policy in shaping gender inequality. Prerequisite: successful completion of an introductory-level Sociology course or consent of the instructor. Graduate students should enroll in the 500-level offering.

Credit 3 units.

Typical periods offered: Spring

SOC 5216 Criminology and Social Control

Criminology is the scientific study of the making of laws, the breaking of laws, and society's response to deviant behaviors. This seminar offers an introduction to the criminological and sociological literatures on the social construction of deviance and criminality; why people engage in deviant behaviors; and how formal and informal social control mechanisms are created and differentially deployed to punish, control, and prevent crime. The course comprises two units, beginning with a survey of key criminological theories of deviance and ending with an examination of theoretical and empirical scholarship on social control (e.g., surveillance, policing, incarceration). We will examine the merits of theories of deviance and social control; explore their impact on law and policy; and assess the strengths and weaknesses of existing data and methodologies to test them.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5220 Intersectionality: Theory, Method, and Praxis

This graduate-level seminar course draws on sociological research, while also drawing on other disciplines and texts by activists themselves. Students will consider intersectionality theory and its application and travel to various spaces including online. In what ways does intersectionality require critical race analysis? In what ways does intersectionality differ on the page as compared to embodied spaces such as social movements? Throughout the course, students will be attentive to the (seeming) tension between intersectionality as a theoretical tool and intersectionality as praxis. In addition to discussion of theory building and content, students will consider the politics of research and how these issues relate to students' own projects. To that end, students will practice a range of learning modalities. Prerequisite: graduate standing.

Credit 3 units.

Typical periods offered: Spring

SOC 5251 Sociology Master's Thesis

This course is a structured independent study for second-year Sociology graduate students to work closely with their thesis committee as they prepare to undertake their Master's Thesis. While the Master's Thesis is to be defended in the Fall term of a student's third year in the program, the course will consist of preparing thesis reading lists, collecting and analyzing data, and constructing preliminary document drafts related to this key program milestone. Students will be waitlisted until they submit both their departmental AM Thesis Committee Declaration form and the OGS-required Research Advisory Committee form to the Academic Coordinator. This course is open only to Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall, Spring

SOC 5301 Professional Writing

This class focuses on various aspects that are central to the successful publication of sociological research. Though the course's main focus will be on writing for peer-reviewed disciplinary outlets (for which the process is far from intuitive), the course will also encourage students to engage and value strategies to translate research for a broader range of audiences. Working with existing writing associated with a Master's thesis, dissertation, or another ongoing research project, students will move through the various components of a publishable article. Students are required to have a draft paper that they will work on for publication to be eligible for course enrollment and will be waitlisted until their enrollment is approved by the faculty instructor. The course provides an excellent opportunity to revise in-progress work towards publication, guided by peer and faculty feedback. It may be repeated for general course credit, although only the first enrollment will count towards Sociology PhD requirements. This course is open only to Sociology graduate students.

Credit 3 units.

Typical periods offered: Fall

SOC 5312 Race, Ethnicity, and Inequality

This graduate seminar is designed to be a foundational course for graduate students interested in race and ethnicity. Drawing primarily from sociological theory and research, we will interrogate the concepts of race and ethnicity as social constructions. This course provides an overview of major debates and theoretical and empirical approaches to the study of race, ethnicity, and racial inequality in Sociology. Prerequisites: There are no specific prerequisites but this course is intended for sociology graduate students. It is open to graduate students in other departments with instructor approval.

Credit 3 units.

Typical periods offered: Spring

SOC 5350 Qualifying Exam Paper - Area I

This course is a structured independent study for Sociology graduate students to work closely with their Qualifying Exam Area I faculty advisor as they prepare to undertake their Qualifying Exam Paper. Students should enroll in this course in the semester they anticipate completing their Qualifying Exam Paper - usually during the Spring term of one's third year in the program. Students must concurrently enroll in L40 SOC 535B - Qualifying Exam Paper - Area II with their Area II faculty advisor. This course pair may only be taken once. Students will be waitlisted until they submit the departmental Qualifying Exam Paper Committee Declaration form. This course is open only to Sociology graduate students.

Credit 1 unit.

Typical periods offered: Fall, Spring

SOC 5351 Qualifying Exam Paper - Area II

This course is a structured independent study for Sociology graduate students to work closely with their Qualifying Exam Area II faculty advisor as they prepare to undertake their Qualifying Exam Paper. Students should enroll in this course in the semester they anticipate completing their Qualifying Exam Paper - usually during the Spring term of one's third year in the program. Students must concurrently enroll in L40 SOC 535A - Qualifying Exam Paper - Area I with their Area I faculty advisor. This course pair may only be taken once. Students will be waitlisted until they submit the departmental Qualifying Exam Paper Committee Declaration form. This course is open only to Sociology graduate students.

Credit 1 unit.

Typical periods offered: Fall, Spring

SOC 5401 Sociology of Immigration

This course reviews theoretical and empirical research on how and why people migrate across international borders, and the consequences of international migration for immigrants and natives in the United States. While immigration is one of the most controversial issues in the contemporary United States, these contentious debates are not new. Americans once voiced the same concerns about the economic and social impact of Southern and Eastern European immigrants that today are aimed at immigrants from Latin America, Asia, Africa, and the Caribbean. In this course, students will compare historical (1880-1920) and contemporary (1965-present) waves of immigration to the United States. In this, students will explore why and how people migrate; immigrant integration; the impact of immigration on native-born Americans; and how government policies - at the national, state, and local level - shape immigrant assimilation and what it means to be considered truly American in a social as well as a legal sense. Prerequisite: successful completion of an introductory Sociology course or consent of the instructor.

Credit 3 units. A&S IQ: SSC, SC Art: SSC BU: BA EN: S

SOC 5451 Sociology Dissertation Proposal

This course is a structured independent study for Sociology graduate students to work closely with members of their dissertation committee members as they begin crafting their dissertation proposal. Enrolled students should anticipate defending their dissertation proposal before the conclusion of the term in which they take the course. Students should consult with their dissertation chair and the DGS prior to registration. Students will be waitlisted until they submit the departmental Dissertation Proposal Committee Declaration form to the Academic Coordinator. This course is open only to Sociology graduate students.

Credit 1 unit.

Typical periods offered: Fall, Spring

SOC 5515 Migration and Health

This course explores the complex relationship between migration and health, with a focus on immigrant health in the United States. Topics include the immigrant health paradox, the impact of immigration enforcement on health and health behavior, access to health care, the health effects of migration on those left behind, and refugee health. Throughout the course, students will pay particular attention to the diverse mechanisms through which immigration and immigration status affect health. In addition to sociology, students will draw on scholarship from the fields of anthropology, demography, medicine, public health, and public policy. Prerequisite: successful completion of an introductory Sociology course or consent of instructor. Graduate students should enroll in the 500-level offering.

Credit 3 units. A&S IQ: SSC, SC Art: SSC BU: BA EN: S

SOC 5720 Race, Reproduction, and Justice

Reproduction is biological, economic, political, and social. Of course, individuals reproduce, but when, how, why, and with whom we do (or do not) is also a matter of public policy and social concern. Drawing on readings from sociology, law and other fields that engage continually with these key questions: Why is reproduction an important site through which to understand sociology? How do statuses such as race, class, gender, sexuality, and ability influence people's reproductive possibilities? How have communities supported or resisted efforts at reproductive control? Why is reproductive justice central to these answers? Students will review theoretical pieces, empirical research, media and more to explore the answers. This course primarily focuses on the US but will expose students to global reproductive concerns. Class sessions include lecture, in-class discussion and online discussion, media analysis and other activities. This upper-level seminar presumes an understanding of the basic concepts in sociology such as sociological imagination and social construction. Prerequisite: successful completion of an introductory-level Sociology course or consent of the instructor. Graduate students should enroll in this 500-level offering.

Credit 3 units. A&S IQ: SSC, SC EN: S

SOC 5810 Global Structures and Problems

This course examines social problems around the world and their relationship to globalization - that is, the increasing connectedness of social and economic life across borders. Students will investigate a range of these problems - such as environmental degradation, labor exploitation, human rights abuses, ethnic conflict, poverty, and inequality - and these issues' links to both personal experiences and larger social structures. The course is premised on the idea that to understand current global social problems, one must understand the evolution of markets, states, civil society and social movements, gender hierarchies, ethnic categories, and global governance over the past century. Enrollment in this 500/5000-level option is only open to graduate students.

Credit 3 units. A&S IQ: LCD, SSC Art: SSC BU: BA, IS EN: S

SOC 5950 Advanced Topics in Sociology

This course is an upper-level seminar course providing in-depth explorations of sociological concepts, methods, or perspectives intended for advanced Sociology majors or minors and graduate students. Topics of study vary.

Credit 3 units. BU: BA, ETH

Typical periods offered: Fall, Spring

SOC 5951 Sociology Workshop: Race, Space, and Place

The Race, Space, and Place (RSP) Workshop is an interdisciplinary workshop housed in the Sociology Department. RSP brings together faculty and graduate students working on race, space, or place and their intersections. Each workshop session involves in-depth discussion of a work-in-progress by a workshop member. Students taking the workshop for credit (Satisfactory/Unsatisfactory) must participate in all workshop sessions as attendees and must serve as a discussant for at least one workshop session during the semester. Students participating in the workshop for multiple semesters will be asked to present their work as related to Race, Space, and/or Place. The workshop is available to Sociology graduate students as a 1-credit course.

Credit 1 unit.

Typical periods offered: Spring

**SOC 6101 Central Questions and Approaches in Sociology**

This is a crash course in some of the most important and prominent questions, research programs, and methodological approaches within the discipline of sociology. Students will read a series of major books and/or articles and discuss current trends, debates, or emerging areas in the field. The course also works to connect lines of scholarly research with practical problems. Students will also have a chance to think creatively about where they fit in the discipline; what questions, assumptions, or arguments need further scrutiny; and how they might productively engage in central debates in the field through their own emerging research. Enrollment is only open to first-year Sociology graduate students.

Credit 2 units.

Typical periods offered: Fall

Sociology, PhD

Contact: Kaitlyne A. Motl, PhD
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 Website: <http://sociology.wustl.edu>

Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 42
- **Degree Length:** 5 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in ASGS 9000 Full-Time Graduate Research/Study. This enrollment will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to the Add/Drop deadline.
- **Grade Requirement:** Students must earn at least a B– in each core course listed below to count toward program credit. In addition, students must maintain a minimum GPA of 3.3 across all required Sociology courses as well as a minimum cumulative GPA of at least 3.0 across all courses taken.

Required Courses

- SOC 5020 Research in Sociology (3 semesters, 1 unit each)
 - During their first three semesters, students will engage in a required collaborative research project with an assigned faculty mentor to integrate students into a faculty member's research and strengthen research and analytical skills. Students will work closely with their faculty mentor, ideally to produce a jointly authored publication early in the student's program of study and to ensure a strong foundation for the student's own research agenda. These collaborations will often continue informally past the third semester.
- SOC 5005 Sociological Foundations (3 units)
- SOC 5120 Sociological Theory (3 units)
- SOC 5030 Quantitative Methods I and SOC 5031 Quantitative Methods II (two-semester sequence, 3 units each)
- SOC 5040 Qualitative Methods (3 units)
- Mentored Teaching/Professional Experience (30 MER units minimum, 0 credits each)
 - Students undertake 30-40 Mentored Experience Requirements units, usually over the course of three semesters. At least two of those Mentored Experiences will be Mentored Teaching Experiences (MTEs), and one may be a Mentored Professional Experience (MPE). Most students will engage in a Mentored Teaching Experience for three semesters. Students who wish to teach independently at Washington University must complete all three Mentored Teaching Experiences; those who do not will not be eligible for teaching assignments. Students will enroll in ASGS 8010 MTE - Assistant in Instruction Experience or ASGS 8120 MTE - Mentored Professional Experience.
- SOC 5052 Research Design (3 units)
- SOC 5301 Professional Writing (3 units)
- 15 credits of elective coursework (typically five courses of 3 units each)
 - Other substantive or methods courses in sociology will be offered that reflect our faculty's research and methodological areas of expertise. All elective coursework must be taken at the 5000 level or above. Students must take at least three elective courses (9 credits) offered within the Department of Sociology. With departmental approval, advanced methods courses and other courses pertaining directly to the student's research interests may be taken in other departments and count toward degree requirements. Coursework that has not been approved for elective use by the Graduate Committee will not count toward program requirements, but it may fulfill other certificate or Arts & Sciences requisites. Students should always consult with their advisor(s) prior to course registration.
- SOC 5251 Sociology Master's Thesis (3 units)
 - The master's thesis/empirical paper is an important milestone and a major publication opportunity. No later than midway through the second year, students will assemble a committee of three faculty members who will provide detailed collective

feedback on their research. By the end of the summer after their second year, students will complete a draft of their thesis/paper and submit it to their advisor for feedback. By the end of the fifth semester, students will have polished their thesis/paper in the professional writing seminar, defended it before their faculty committee, and submitted the research for publication.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Beginning with the Fall 2026 cohort, Sociology graduate students will take a general exam at the beginning of the second academic year.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Sociology graduate students must complete the following requirements by the end of the sixth semester to advance to doctoral candidacy: complete required coursework, pass the general exam, complete the Mentored Experience requirements, submit an approved Dissertation Title, Scope, and Procedure form, and complete the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way

The Department of Sociology does not offer a standalone Master of Arts degree. However, those who wish to earn the MA as a part of their broader doctoral study may do so. Master's degrees are not automatically granted through PhD program advancement; students must formally elect into this option.

To be eligible for the Master of Arts in Sociology, students must complete all courses required by the Department; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion via Workday Student. For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page of the Arts & Sciences Bulletin (p. 53). Students should also refer to the latest version of the Sociology Graduate Student Handbook for more information about Department-specific items required for the MA.

In addition to the requirements listed above, students who opt to earn the Master of Arts in Sociology as a part of their PhD program must also complete a master's thesis or an original empirical research paper intended for scholarly publication.

A Title, Scope, and Procedure form for the master's thesis must be signed by the thesis committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least six months before the degree is expected to be conferred.

A Master's Thesis Guide and a Thesis Template that give instructions regarding the format of the thesis are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of thesis preparation.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

We consider teaching to be a critical component of our role as sociologists, and the PhD program aims to prepare students to be effective teachers as well as scholars and researchers. Teaching also develops students' competence and confidence in exercising the following skill areas:

- Becoming effective public speakers
- Translating content, theory, and policy to both scholarly and public audiences
- Using classroom experiences to understand their own roles as scholars
- Becoming effective mentors to students

Sociology PhD students have varied preferences for eventual careers, including jobs at research-intensive institutions, teaching-intensive colleges or universities, or non-academic careers. Our flexible MER allows students to tailor their experience according to their eventual ideal career path. For students interested in careers that include teaching sociology, extensive teaching experience and skills are necessary to obtain faculty positions. These students would complete three Assistant in Instruction (AI) experiences and we encourage participation in the Professional Development in Teaching Program through the Center for Teaching and Learning (CTL) and teach their own class (though the latter two are suggestions, and not formal MER requirements). For students who have set their sights set on research-oriented careers, the program seeks to provide numerous transferrable skills through their mentored teaching and professional experiences, and to facilitate opportunities to progressively develop and apply them.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

We require three preparatory engagement activities prior to students' assisting in the classroom, and a fourth activity to be completed concurrently with engagement in AI. These activities include the following:

1. Students complete the Sociology department's one-credit Professional Development seminar.
2. Students must participate in and successfully complete the Center for Teaching and Learning Mentored Teaching Orientation, usually held in August.
3. Prior to the beginning of each AI engagement, each student will meet with the course's instructor to discuss the goals and needs of the class, as well as expectations that students will fulfill as a part of their course role.
4. During the first or second AI, students will also be required to complete at least one Foundations of Teaching workshop offered by the CTL.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Sociology AI engagements differ depending upon the nature of the course but count for 10 MER units, which is estimated to be 10 hours per week during the semester in which they undertake the AI. Students and faculty will be expected to check in with each other (formally and informally) to discuss expectations for the AI assignment and to develop opportunities for the student to grow within the scope of their assignment. Examples of student AI engagements include the following:

- Course administration and managing/facilitating student correspondence (between students, to/from faculty)
- Attending class meetings regularly and participating in course delivery/activities as appropriate
- Student assessment (i.e., grading assignments and providing feedback)
- Delivering guest lectures within the course
- Facilitating class discussions or acting as a classroom engagement coordinator

- Maintaining online course components and resources (i.e., keeping the course's Canvas page up to date)
- Holding regular office hours/meeting with students for assistance with coursework and content
- Providing and promoting course- and department-related student enrichment and engagement opportunities
- Coordinating and supervising the activities of undergraduate teaching assistants for those assigned to an AI in a large undergraduate course.
- Leading lab skills workshops (for quantitative methods courses)

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

In an effort to best suit students' personal and professional goals, the nature of approved MPE activities will vary widely. Generally, students undertaking an MPE will participate in a supervised and sociologically relevant off-campus experience at a community agency or nonprofit, private enterprise, research center, or scholarly organization. Regardless of the entity with which a student works and the roles that they will be expected to fulfill, students' main objective within the MPE will be to utilize sociological knowledge and/or methodological skill sets within practical, applied settings.

Students who elect to participate in an MPE will be required to identify two mentors. The first of these will be a faculty member in Sociology who will agree to be their mentor for the MPE. Students will meet regularly with their faculty mentor during the semester and complete a final project of some kind at the faculty mentor's discretion, such as a report, reflection, and/or public presentation, that draws from the knowledge and skills gained through their MPE, to be submitted to and evaluated by the faculty mentor.

The second mentor must be associated with the outside organization at which the student is completing the MPE. This site mentor will be asked in the Mentorship Registration Request form to identify and describe tasks to be completed as a part of the MPE assignment — as well as detail the total hours of engagement over the course of the semester — which will be communicated with both the student and their faculty mentor. The site mentor will also be asked to complete an MPE assessment of the student at the conclusion of the semester. This assessment will be shared with the faculty mentor.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Students complete between 30 and 40 MER units. This is dependent upon if they take three AIs for 30 MER units or two AIs for 20 MER units and one MPE for 20 MER units. Students follow this timeline.

- **Year 1:** Preparatory Engagement starts. AI assignments will be made late in the spring term, ensuring AI expectation discussions between student and their faculty mentor prior to the start of the fall AI assignment.
- **Year 2:** Students will enroll in ASGS 8010 MTE - Assistant in Instruction Experience for 10 MER units each in both fall and spring semesters. Students will receive informal feedback throughout their assignment from their faculty mentor, as well as a "formal" review upon completion of the term's AI assignment. Students will generate and submit reflective self-reviews in both the fall and spring terms. Students will complete at least one Foundations of Teaching workshop offered by the Center for Teaching and Learning.
- **Year 3:** Students will enroll as an AI under ASGS 8010 MTE - Assistant in Instruction Experience for 10 MER units or as an MPE under ASGS 8120 MTE - Mentored Professional Experience for 20 MER units in the fall or spring term. Students interested in teaching-focused jobs and would like opportunities to apply for graduate student lecturer opportunities are encouraged to complete the Center for Teaching and Learning's Professional Development in Teaching Program.
- **Years 4, 5, and 6:** No MER requirements. Students interested in gaining further teaching experience are encouraged to apply to teach courses independently through the College of Arts & Sciences Summer Session or the School of Continuing & Professional Studies. However, this is not a requirement, nor is it guaranteed that every student will have the opportunity to teach as an instructor of record. Students who are hired to teach independently for compensation can only do so after they have completed their MER.

Pathway #1

ASGS 8010	Take three times

Pathway #2

ASGS 8010	Take two times
ASGS 8120	Take one time

Statistics and Data Science

Statistics — as a core discipline focusing on data-driven discovery, understanding, and decision-making — is rapidly evolving and advancing in the data science era. The Department of Statistics and Data Science (SDS) strives to be a world-class department with outstanding scholars who will transform the university's intellectual community not only through their own activities and achievements but also through synergistic collaborations with existing faculty and departments across Arts & Sciences, the McKelvey School of Engineering, and all of the other schools at the university.

SDS offers two master's degree programs in statistics and one doctoral degree in statistics. Our master's and PhD graduates regularly secure competitive positions at universities, at government institutions, and as statisticians and data scientists in industry. One of the most attractive features of our program is the friendly and supportive atmosphere that develops among our graduate students.

PhD in Statistics

Students ordinarily complete the PhD program in five years. Students typically spend their first two years (four semesters) taking graduate courses. At the end of this time, they will have completed requirements for the master's degree. Students ordinarily start the process of finding a dissertation advisor and start their research during their second year.

A student who comes to Washington University with advanced preparation may finish in less time. Alternatively, some students find that it is advisable for them to take some preparatory courses before attempting the qualifying courses.

Master of Arts in Statistics

SDS offers two Master of Arts (MA) programs. The Accelerated BA/MA in Statistics is available only to qualified Washington University undergraduates. The standalone MA in Statistics is available to all qualified students from any field.

Our programs equip students with a strong foundation in statistical thinking and data analysis to prepare them for a wide range of professional pathways, including roles in industry, government, and research, as well as for further graduate study, including PhD programs in statistics, biostatistics, data science, and related fields. The program is open to students from diverse academic backgrounds and provides flexibility for students to shape their academic experience based on their individual goals.

A hallmark of the program is its balance between rigorous core training and flexibility in elective coursework. Students benefit from the opportunity to explore interdisciplinary courses and engage with advanced topics that align with their career interests. Those seeking additional academic challenges can immerse themselves in more advanced offerings and research opportunities.

The program also emphasizes practical experience through internships or research collaborations, providing hands-on training that complements classroom learning and enhances career readiness.

The Accelerated BA/MA in Statistics for Washington University undergraduates enables highly motivated students to begin graduate-level training during their undergraduate years and complete both degrees in a streamlined format. The accelerated program is ideal for students with clear academic and professional goals who are ready to engage in an intensive, fast-paced curriculum. Because of the fast-paced nature of this option, students interested in the accelerated program are encouraged to plan ahead and take advanced coursework during their undergraduate studies to ensure they are well prepared for the graduate-level curriculum. Students enrolled in this accelerated program are expected to have backgrounds comparable to the students admitted to the regular MA program.

Overview of Faculty Research

The interdisciplinary interests of our faculty span a broad range of areas including the application of statistics and data science to medicine, finance, environmental sciences, and technology. Research interests of our faculty include the following:

- Bayesian statistics
- Bioinformatics
- Bootstrap methodology
- Causal inference
- Environmental statistics
- Functional data analysis
- High-dimensional statistics
- Statistical computing for massive data
- Mathematical and statistical finance
- Model selection and post-selection inference
- Network analysis
- Robust statistics
- Statistical and machine learning
- Time series and spatial statistics

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Faculty

Chair

Xuming He

Kotzubei-Beckmann Distinguished Professor
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Director of Graduate Studies

José Figueroa-López

Professor
PhD, Georgia Institute of Technology

Director of PhD Program

Xiaofeng Shao

Professor
PhD, University of Chicago

Director of Master's Program

Nan Lin

Professor
PhD, University of Illinois at Urbana-Champaign

Director of Undergraduate Studies

Joe Guinness

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PhD, University of Chicago

Department Faculty

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PhD, University of Pennsylvania

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PhD, Yale School of Public Health

Apratim Dey

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PhD, Stanford University

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PhD, University of California at Davis

Joe Feldman

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PhD, Rice University

Hong Hu

Assistant Professor
PhD, Harvard University

Abigail Jager

Senior Lecturer
PhD, University of Chicago

Vasileios (Bill) Katsianos

Lecturer
PhD, University of Chicago

Todd Kuffner

Associate Professor
PhD, Imperial College London

Soumendra Lahiri

Stanley A. Sawyer Professor
PhD, Michigan State University

Bo Li

Stanley A. Sawyer Professor
PhD, Texas A&M University

Robert Lunde

Assistant Professor
PhD, Carnegie Mellon University

Carlos Misael Madrid Padilla

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PhD, University of Notre Dame

Lizda Nazdira Moncada Morales

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Associate Professor
PhD, University of Washington

Postdoctoral Instructors

Wentao Hu

Postdoctoral Lecturer
PhD, University of Chicago

Subhrajyoty Roy

Postdoctoral Lecturer
PhD, Indian Statistical Institute

Shota Takeishi

Postdoctoral Lecturer
PhD, University of Tokyo

Yuyang Li

Postdoctoral Lecturer
PhD, Iowa State University

Xin Lu

Postdoctoral Lecturer
PhD, Tsinghua University

Maoyu Zhang

Postdoctoral Lecturer
PhD, Renmin University of China

Yi Zhang

Postdoctoral Lecturer
PhD, University of Illinois Urbana-Champaign

Degree Requirements

- Statistics and Data Science, Accelerated BA/MA, Applied Data Science Concentration (p. 485)
- Statistics and Data Science, Accelerated BA/MA, Statistics Concentration (p. 487)
- Statistics and Data Science, MA, Applied Data Science Concentration (p. 489)
- Statistics and Data Science, MA, Statistics Concentration (p. 490)
- Statistics and Data Science, MA, Statistics for Political Science PhD Students Concentration (p. 492)
- Statistics, PhD (p. 494)

Courses

SDS 5000 Independent Work

Independent Work for Credit. Graduate standing (or, for advanced undergraduates permission of the Department's Director of Undergraduate Studies)
Credit 6 units.

Typical periods offered: Fall, Spring

SDS 5005 Essentials of Probability Models and Statistical Inference

This course provides a foundational yet comprehensive introduction to probability models and statistical inference, tailored for graduate students in data science. Students will learn to construct and apply probability models, explore various sampling strategies, and interpret statistical paradoxes, all within the broader context of modeling and drawing conclusions from data. The course emphasizes both theoretical understanding and methodological application, covering three core modules: (1) probability models, including the multivariate Gaussian distribution and exponential family distributions; (2) frequentist inference, including estimation, maximum likelihood estimation, consistency and efficiency, sufficiency, and the EM algorithm; and (3) Bayesian inference, covering prior and posterior

distributions, conjugate priors, Bayesian risk, and computational methods such as MCMC. By integrating both frequentist and Bayesian perspectives, this course equips students with essential tools for statistical reasoning and data-driven decision making.

Credit 3 units.

Typical periods offered: Fall

SDS 5007 Statistics for Medical and Public Health Researchers

This course is an introduction to basic statistical analysis for graduate students in medicine, biology, and public health. Students will be introduced to core statistical tools used to study human health outcomes. Topics include: measurement, descriptive analysis, correlation, graphical analysis, hypothesis testing, confidence intervals, analysis of variance, and regression analysis. Major components of the course include learning how to collect, manage, and analyze data using computer software, and how to effectively communicate to others results from statistical analyses. The second aspect of the course is focused on the statistical package R, which is the most powerful, extensively featured, and capable statistical computing tool available. Course may not be used for credit in undergraduate math major/minor programs, nor in any Mathematics or Statistics graduate programs.

Credit 3 units.

Typical periods offered: Fall

SDS 5010 Probability

Mathematical theory and application of classical probability at the advanced level; a calculus based introduction to probability theory. Topics include the computational basics of probability theory, combinatorial methods, conditional probability including Bayes' theorem, random variables and distributions, expectations and moments, the classical distributions, and the central limit theorem. Prerequisites: Multivariate Calculus (Math 233); a course in linear algebra at the level of Math 309 or Math 429. Some knowledge of basic ideas from analysis (e.g. Math 4111) will be helpful: consult with instructor.

Credit 3 units.

Typical periods offered: Fall

SDS 5020 Mathematical Statistics

Theory of estimation, minimum variance and unbiased estimators, maximum likelihood theory, Bayesian estimation, prior and posterior distributions, confidence intervals for general estimators, standard estimators and distributions such as the Student-t and F-distribution from a more advanced viewpoint, hypothesis testing, the Neymann-Pearson Lemma (about best possible tests), linear models, and other topics as time permits.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Spring

SDS 5070 Stochastic Processes

Content varies with each offering of the course. Past offerings have included such topics as random walks, Markov chains, Gaussian processes, empirical processes, Markov jump processes, and a short introduction to martingales, Brownian motion and stochastic integrals.

Credit 3 units. A&S IQ: NSM Art: NSM

Typical periods offered: Spring

SDS 5111 Experimental Design

A first course in the design and analysis of experiments, from the point of view of regression. Factorial, randomized block, split-plot, Latin square, and similar design.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

SDS 5120 Survival Analysis

Life table analysis and testing, mortality and failure rates, Kaplan-Meier or product-limit estimators, hypothesis testing and estimation in the presence of random arrivals and departures, and the Cox proportional hazards model. Techniques of survival analysis are used in medical research, industrial planning and the insurance industry.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

SDS 5130 Linear Statistical Models

Theory and practice of linear regression, analysis of variance (ANOVA) and their extensions, including testing, estimation, confidence interval procedures, modeling, regression diagnostics and plots, polynomial regression, colinearity and confounding, model selection, geometry of least squares, etc. The theory will be approached mainly from the frequentist perspective and use of the computer (mostly R) to analyze data will be emphasized.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Spring

SDS 5140 Advanced Linear Statistical Models

Review of basic linear models relevant for the course; generalized linear models including logistic and Poisson regression (heterogeneous variance structure, quasilielihood); linear mixed-effects models (estimation of variance components, maximum likelihood estimation, restricted maximum likelihood, generalized estimating equations), generalized linear mixed-effects models for discrete data, models for longitudinal data, optional multivariate models as time permits. The computer software R will be used for examples and homework problems. Implementation in SAS will be mentioned for several specialized models.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Spring

SDS 5155 Time Series Analysis

Time series data types; autocorrelation; stationarity and nonstationarity; autoregressive moving average models; model selection methods; bootstrap confidence intervals; trend and seasonality; forecasting; nonlinear time series; filtering and smoothing; autoregressive conditional heteroscedasticity models; multivariate time series; vector autoregression; frequency domain; spectral density; state-space models; Kalman filter. Emphasis on real-world applications and data analysis using statistical software.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

SDS 5210 Statistical Computation

Introduction to modern computational statistics. Pseudo-random number generators; inverse transform and rejection sampling. Monte Carlo approximation. Nonparametric bootstrap procedures for bias and variance estimation; bootstrap confidence intervals. Markov chain Monte Carlo methods; Gibbs and Metropolis-Hastings sampling; tuning and convergence diagnostics. Cross-validation. Time permitting, optional topics include numerical analysis in R, density estimation, permutation tests, subsampling, and graphical models. Prior knowledge of R at the level used in Math 494 is required.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

SDS 5212 Statistics for Data Science I

This course starts with an introduction to R that will be used to study and explore various features of data sets and summarize important features using R graphical tools. It also aims to provide theoretical tools to understand randomness through elementary probability and probability laws governing random variables and their interactions. It integrates analytical and computational tools to investigate statistical distributional properties of complex functions of data. The course lays the foundation for statistical inference and covers important estimation techniques and their properties. It also provides an introduction to more complex statistical inference concepts involving testing of hypotheses and interval estimation. Required for students pursuing a major in Data Science. No prior knowledge of Statistics is required. NOTE: Math/SDS 3211 and Math/SDS 3200 can not both count towards any major or minor in the Statistics and Data Science Department.

Credit 3 units. A&S IQ: NSM, AN Art: NSM

Typical periods offered: Fall, Spring

SDS 5215 Python for Data Science

Python has become the most popular programming language for data science and competency in Python is a critical skill for students interested in this area. This course introduces Python within the context of the closely related areas of statistics and data science. Topics include syntax and capabilities of Python, introduction to Spyder IDE and Jupyter notebooks, data wrangling using pandas library (cleaning, merging, reshaping, and summarizing/aggregating data), SQL databases, writing basic functions (handling missing data and common data cleaning tasks within the pandas framework), data visualization using Seaborn and Matplotlib, Statistical modeling with statsmodels, Machine learning with SKLearn (Tree Based Methods, Ensemble, SVM), Unsupervised Machine Learning with SkLearn (Clustering, K-means, Dimension Reduction, Principal Component Analysis), Introduction to NumPy, and Basics of Neural Network and PyTorch.

Credit 3 units.

Typical periods offered: Spring

SDS 5310 Bayesian Statistics

Introduces the Bayesian approach to statistical inference for data analysis in a variety of applications. Topics include: comparison of Bayesian and frequentist methods, Bayesian model specification, choice of priors, computational methods such as rejection sampling, and stochastic simulation (Markov chain Monte Carlo), empirical Bayes method, hands-on Bayesian data analysis using appropriate software.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Spring

SDS 5320 Foundations for Causal Inference

This course offers a comprehensive introduction to the concepts, methods, and applications of causal inference in the social and biomedical sciences. Topics include the potential outcomes framework, assumptions for causal identification, and a range of statistical approaches for estimating various causal effects in both experimental and observational studies, such as propensity score methods, doubly robust estimators, g-computation methods, instrumental variables estimation, and double machine learning estimators. Students will learn to critically evaluate study designs, assess the plausibility of assumptions, and interpret results in context. The course emphasizes both statistical foundations and practical applications, with hands-on exercises in R for implementing methods and analyzing real-world datasets.

Credit 3 units.

Typical periods offered: Spring

SDS 5425 Data Mining Methods and Applications

Data mining is the process of uncovering meaningful patterns and making predictions from data, often in large and complex datasets. This course provides both a practical and theoretical foundation in data mining, emphasizing computational techniques and statistical reasoning. Students will explore supervised and unsupervised learning methods, applying them to real-world datasets across different domains. The course balances conceptual understanding with hands-on programming, ensuring students grasp both the principles behind data mining algorithms and their implementation. Topics covered include essential data mining techniques, such as information retrieval and similarity measures, dimensionality reduction (PCA, MDS, Isomap, UMAP), clustering (k-means, hierarchical clustering), regression (linear regression, ridge regression, lasso), and classification (KNN, LDA, QDA, decision trees). Additional topics, including advanced clustering methods, ensemble learning techniques (bagging, boosting, random forests), and artificial neural networks, may be covered as time permits. All programming throughout the course will be conducted in Python.

Credit 3 units.

Typical periods offered: Fall

SDS 5430 Statistical Learning

A modern course in multivariate statistics. Elements of classical multivariate analysis as needed, including multivariate normal and Wishart distributions. Clustering; principal component analysis. Model selection and evaluation; prediction error; variable selection; stepwise regression; regularized regression. Cross-validation. Classification; linear discriminant analysis. Tree-based methods. Time permitting, optional topics may include nonparametric density estimation, multivariate regression, support vector machines, and random forests. Prior knowledge of R at the level introduced in Math/SDS 439 is assumed.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall, Spring

SDS 5440 Mathematical Foundations of Big Data

Mathematical foundations of data science. Core topics include: Probability in high dimensions; curses and blessings of dimensionality; concentration of measure; matrix concentration inequalities. Essentials of random matrix theory. Randomized numerical linear algebra. Data clustering. Depending on time and interests, additional topics will be chosen from: Compressive sensing; efficient acquisition of data; sparsity; low-rank matrix recovery. Divide, conquer and combine methods. Elements of topological data analysis; point cloud; Cech complex; persistent homology. Selected aspects of high-dimensional computational geometry and dimension reduction; embeddings; Johnson-Lindenstrauss; sketching; random projections. Diffusion maps; manifold learning; intrinsic geometry of massive data sets. Optimization and stochastic gradient descent. Random graphs and complex networks. Combinatorial group testing. Prerequisite: Multivariable calculus (Math 233), linear or matrix algebra (Math 429 or 309), and multivariable-calculus-based probability and mathematical statistics (Math/SDS 493-494 or Math/SDS 3211/4211). Prior familiarity with analysis, topology, and geometry is strongly recommended. A willingness to learn new mathematics as needed is essential.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Spring

SDS 5480 Topics in Statistics

Topic varies with each offering.

Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

SDS 5481 Special Topics in Statistics and Data Science: An Introduction in Python

Credit 1.5 units.

SDS 5501 Teaching Seminar

Principles and pedagogical strategies for teaching Statistics and Data Science at the college level.

Credit 1.5 units.

Typical periods offered: Spring

SDS 5502 Professional Development

This course includes topics on professional development, technical writing, and responsible conduct of research.

Credit 1.5 units.

Typical periods offered: Fall

SDS 5503 Statistics and Data Science Seminar

This weekly seminar covers recent advances in the field of Statistics and Data Science. Leaders in the field will present their recent work. The purpose is for Ph.D. students to gain knowledge about the breakthroughs in the field, the most critical problems facing the different subareas, and how researchers approach solutions to those. This exposure in turn helps them to develop professionally and may inspire advances in their own research and future research directions. The students also get familiarized with the leaders in the field. Participation also creates a sense of Data Science community within the department and WashU.

Credit 1 unit.

Typical periods offered: Spring

SDS 5510 Advanced Probability I

Advanced Probability I course description is TBD.

Credit 3 units.

Typical periods offered: Fall

SDS 5511 Advanced Probability II

Advanced Probability II course description is TBD.

Credit 3 units.

Typical periods offered: Spring

SDS 5515 Probability Theory for Statistics and Data Science

This is a graduate-level course on the probability theory underpinning modern statistics and data science. The course will start with a review of key concepts from an undergraduate probability course and an introduction to basic measure-theoretic concepts. The course will then cover modes of stochastic convergence, classical results such as the law of large numbers and central limit theorem, concentration inequalities, and time-permitting, topics such as martingales and U-statistics. The course is intended for master's and PhD students in statistics and other quantitative disciplines. Proofs will not be an emphasis in the course.

Credit 3 units.

Typical periods offered: Fall

SDS 5516 Theory of Statistical Inference

This course provides a rigorous treatment of mathematical statistics, with emphasis on estimation, hypothesis testing, and large-sample theory. The focus is on theoretical foundations, derivations, and mathematical reasoning underlying classical and modern statistical inference methods. Topics include likelihood-based inference,

unbiased estimation, sufficiency and completeness, decision theory, asymptotic theory of estimation and testing, and nonparametric and distribution-free methods. The course is proof-oriented and intended for students with preparation in probability and mathematical analysis. Credit 3 units.

Typical periods offered: Spring

SDS 5521 Advanced Linear Models I

Theory and practice of linear regression, analysis of variance (ANOVA) and their extensions, including testing, estimation, confidence interval procedures, modeling, regression diagnostics and plots, polynomial regression, collinearity and confounding, and model selection. The theory will be approached mainly from the frequentist perspective and use of statistical software (mostly R) to analyze data will be emphasized. Credit 3 units.

Typical periods offered: Fall

SDS 5522 Advanced Linear Models II

Generalized linear models including logistic and Poisson regression (heterogeneous variance structure, quasi-likelihood), linear mixed-effects models (estimation of variance components, maximum likelihood estimation, restricted maximum likelihood, generalized estimating equations), generalized linear mixed-effects models for discrete data, models for longitudinal data, and optional multivariate models as time permits. The computer software R will be used for examples and homework problems. Implementation in SAS will be mentioned for several specialized models. Credit 3 units.

Typical periods offered: Spring

SDS 5525 Theory of Statistics I

An introductory graduate level course. Probability spaces; derivation and transformation of probability distributions; generating functions and characteristic functions; law of large numbers, central limit theorem; exponential family; sufficiency, uniformly minimum variance unbiased estimators, Rao-Blackwell theorem, information inequality; maximum likelihood estimation; estimating equation; Bayesian estimation; minimax estimation; basics of decision theory. Credit 3 units.

Typical periods offered: Fall

SDS 5526 Theory of Statistics II

Continuation of Math/SDS 5061.

Credit 3 units.

Typical periods offered: Spring

SDS 5531 Advanced Statistical Computing I

This course is the first of a sequence of two courses on advanced methods and tools for Statistical Computing. The course sequence provides opportunities to develop programming skills, algorithmic thinking, and computing strategies for statistical research. Key topics in SDS 5531 include EM algorithms, dynamic programming, random number generation, Monte Carlo methods, Markov Chain Monte Carlo (MCMC) and other advanced variants. Prereq: Math 233; a course in linear algebra at level of Math 309 or Math 429; multivariable-calculus-based probability and mathematical statistics (Math/SDS 493-494 or Math/SDS 3211/4211); Experience with a high-level programming language like R, Python, C++, etc. Credit 3 units.

Typical periods offered: Fall

SDS 5532 Advanced Statistical Computing II

This is the second course on advanced methods and tools for Statistical Computing. This course will introduce classical methods, including the EM algorithm and its variants. It also will cover basic convex optimization theory and advanced computing tools and techniques for big data and learning algorithms. Experience with a high-level programming language like R, Python, C++, etc. is recommended. Credit 3 units.

Typical periods offered: Spring

SDS 5540 Statistical Network Analysis

This is an advanced course on the statistical analysis of network data, covering theory, methodology, and applications. The course will cover basic graph theory, commonly used models for random graphs (e.g. Erdos-Renyi, exponential random graph models, stochastic block models, random dot product graphs, graphons), and canonical statistical inference problems within these frameworks (e.g., hypothesis testing, community detection, construction of prediction intervals). Time permitting, additional topics such as dynamic network modeling and causal inference under network interference will also be discussed. This course is intended for PhD students with appropriately strong mathematical background. However, the course is open to anyone interested in the topic. Credit 3 units.

Typical periods offered: Spring

SDS 5571 Topics in Advanced Probability

Credit 3 units.

SDS 5572 Topics in Advanced Probability II

Various topics related to advanced probability will be explored.

Credit 3 units.

SDS 5595 Topics in Statistics: Spatial Statistics

The course covers all three main branches of spatial statistics, namely, (1) the continuum spatial variations, (2) the discrete spatial variations and, (3) the spatial point patterns. Topics include positive definite functions, geostatistics, variograms, kriging, conditional simulations, Markov random fields, conditional and intrinsic autoregressions, Ising and Potts models, pseudolikelihood, MCMC, Inference for spatial generalized linear and mixed models, Spatial Poisson, and other point processes. The computer software R is used for examples and homework problems. Prerequisites: CSE 131; Math 233; Math 309 or Math 429; multivariable-calculus-based probability and mathematical statistics (Math/SDS 493-494 or Math/SDS 3211/4211); Math/SDS 439. Prior knowledge of R at the level introduced in Math/SDS 439 is assumed. Credit 3 units. A&S IQ: NSM

Typical periods offered: Fall

SDS 5800 Topics in Statistics

This is a graduate-level course designed to equip students with both fundamental and advanced optimization techniques and methods relevant to large-scale statistics and machine learning. We will begin with a concise review of the fundamentals of convex optimization, then progress to explore significant developments in first-order optimization methods across convex, nonconvex, stochastic, and distributed settings. Upon completing the course, students are expected to be capable of handling optimization-related challenges they encounter in statistics and machine learning research. This includes appropriately formulating an optimization problem, selecting or developing an efficient optimization algorithm for it, and analyzing the algorithm, based on structural properties such as convexity, smoothness, and sparsity, as well as specific settings such as online,

distributed, and memory-limited contexts. Fluency with reasoning and analysis using linear algebra and probability is required. Students are expected to be familiar with the basics of at least one computing platform/ programming language, such as Matlab, Julia, Python, and R. Students should learn by themselves the basics of the (very user-friendly) convex optimization interpreter cvx (<http://cvxr.com/cvx/>) in the Matlab environment. cvx is also available in the Julia and Python environments.

Credit 3 units.

Typical periods offered: Fall

SDS 5801 Advanced Topics in Statistics

This is a variable credit-hour course in Advanced Topics in Statistics. The proposed course in Fall 2025 is a 1.5 credit-hour advanced topic course on time series analysis and highdimensional statistics. It will provide a systematic introduction to two research topics: selfnormalization (SN) for time series inference and nonlinear dependence metrics and their statistical applications. For self-normalization, we plan to cover its use for both confidence interval construction and hypothesis testing in the setting of stationary multivariate time series, functional time series, and high-dimensional time series. Change-point testing and estimation based on self-normalization will be introduced in detail for both low and high-dimensional data. Some recent work which combines sample splitting and self-normalization will also be presented. The course assumes that the student has the basic background of time series analysis and some research experience in time series analysis is desired but not a prerequisite. For nonlinear dependence metrics, the emphasis will be placed on distance covariance, energy distance and their variants, including Hilbert-Schmidt Independence Criterion, maximum mean discrepancy, and martingale difference divergence, among others. The usefulness of these metrics will be demonstrated in some contemporary problems in statistics, such as dependence testing and variable screening/selection for high-dimensional data, as well as dimension reduction and diagnostic checking for multivariate time series. Some recent work on their applications to the inference of non-Euclidean data will also be discussed. The presentations are based on the research results my collaborators and I have obtained in the past and will cover methodology, theory and practical data examples.

Credit 1.5 units.

Typical periods offered: Spring

SDS 5802 Advanced Topics in Statistics:

This advanced topic course delves into five critical ideas and insights that have significantly impacted the fields of statistics and data science. From foundational concepts to influential advancements, each topic is selected for its historical significance and enduring impact. Students will develop a deep appreciation for these key ideas, associated insights, and their role in shaping contemporary statistical theory and practice. For each topic, we will discuss motivations, innovations, and impacts through presentations and discussions. Students will be required to read important papers and share their perspectives. Although many topics fit this criterion, the list includes, but is not limited to, influence functions, resampling, adaptive designs, dimension reduction, data augmentation, regularization, identifiability, and propensity scores. Depending partly on the interests of the students, we will select and focus on five topics over the course of one semester. Prerequisites: SDS 5020 and 5071.

Credit 1.5 units.

Typical periods offered: Spring

SDS 5805 Topics in Statistics

Topics in Statistics

Credit 3 units.

Typical periods offered: Fall

SDS 5900 Research

See the beginning of the mathematics listings and register for the section corresponding to supervising instructor. Prerequisite: Graduate standing and permission of the instructor.

Credit 0 units.

Typical periods offered: Fall, Spring

SDS 5901 Research

See the beginning of the mathematics listings and register for the section corresponding to supervising instructor.

Credit 3 units.

Typical periods offered: Fall

SDS 5910 Practical Training in Statistics

The Master of Arts in Statistics program at Department of Statistics and Data Science, Washington University in St. Louis, requires students to participate in extensive practical training as an essential component of the degree program. The program requires all full-time students to participate in practical training at least for one semester or summer session during their degree study. This requirement should be completed prior to the last semester in the degree program. The requirement does not require registration for additional credit but does require registration by ALL students, regardless of citizenship or visa status, for the zero-credit practical training course SDS 5910 for one semester or summer session in which a student participates in an internship or co-op. Practical training can be fulfilled by any one of the following three methods: 1. An off-campus Internship or Co-op position with an employer in the data science industry or data science related department of a company is STRONGLY RECOMMENDED as the most preferred component of the Practical Training. The position should be related to the Statistics curriculum and span at least four weeks in duration. The student is required to submit a written report after the internship ends. 2. On-campus research, or research project participation, where the research or project is related to data science under the sponsorship of one or more of a data science institution, industry practitioner or faculty member of Washington University in St. Louis. A detailed written report on the research or project participation should be submitted and approved by a faculty member in the Department of Statistics and Data Science. 3. Participation in the colloquium or statistics seminar in the Department of Statistics and Data Science, or other data science related research colloquium and seminar talks at Washington University in St. Louis. Students must attend talks regularly. A written report should be submitted to summarize the problems, ideas, approaches and results learned from at least four talks, and provide additional information from further reading and research of the topic.

Credit 0 units.

Typical periods offered: Fall



Statistics and Data Science, Accelerated BA/MA, Applied Data Science Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 units
- **Degree Length:** Two additional semesters
 - **Note:** Students must be enrolled in at least 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to the Add/Drop date.

Statistics and Data Science, Accelerated BA/MA

The Office of Graduate Studies, Arts & Sciences, has an accelerated BA/MA program in which highly qualified WashU undergraduate majors can earn both the BA and MA degrees with two additional semesters of work (usually a total of five years).

This program is only for Washington University undergraduates who, if they participate, must do so in the academic year immediately following graduation of their BA degree (no deferments). Eligibility requires having completed the BA degree from Arts & Sciences or a BA, BS, or BSBA degree from another school or college at Washington University that includes sufficient coursework from the Department of Statistics and Data Science.

For students in the accelerated BA/MA pathway, a minimum of 9 units and a maximum of 12 units at the 4000 or 5000 level with mixed enrollment taken during undergraduate study may be applied to the MA degree, subject to approval. BA/MA students may enroll in the 4000-level version of a 4000/5000 paired course while they are undergraduates, and these units may be applied to the accelerated MA. Once the students become graduate students, in their fifth year, they must take only 5000-level or above graduate courses. Accelerated BA/MA students must complete all BA requirements prior to matriculating into the MA program; they are expected to have completed at least 9 graduate-applicable units prior to their fifth year (the +1 master's year).

The application deadline (subject to change by the Office of Graduate Studies, Arts & Sciences) is the March 15 before beginning the MA program in the fall semester following the completion of the Washington University BA degree. Note that the application is made through the department, which forwards it to the Office of Graduate Studies, Arts & Sciences. Applicants must specify in their application that they are applying to the accelerated program.

The program offers two concentrations: Statistics and Applied Data Science. The Statistics concentration is intended for students seeking deeper training in statistical theory, mathematical statistics, and advanced statistical methodology, including those preparing for PhD study or technically intensive statistical work. The Applied Data Science concentration is designed for students who want rigorous training in statistical modeling, computation, and data science, with greater flexibility to connect these tools to domain-specific applications in areas such as biology, economics, political science, psychology, and other data-driven fields. Students in both concentrations must satisfy the general requirements (listed below).

The degree requires 30 units of coursework. Students may also choose an optional thesis pathway, which requires 6 additional units of thesis research, bringing the total requirement to 36 units. The minimum residence requirement is one full academic year of graduate study. A GPA of B (3.0) or better must be maintained in graduate courses. To be eligible for the thesis option, a student must maintain a cumulative GPA of 3.5 or higher in the first 18 units of courses satisfying the program requirements.

Required Courses

Students must take the following required courses or their equivalents. The required courses differ slightly based on the student's concentration.

Required Courses for the Applied Data Science Concentration

Code	Title	Units
SDS 5005	Essentials of Probability Models and Statistical Inference	3
SDS 5130	Linear Statistical Models	3
SDS 5210	Statistical Computation	3
SDS 5215	Python for Data Science	3
SDS 5910	Practical Training in Statistics	0
Total Units		12

SDS 5005 Essentials of Probability Models and Statistical Inference may be replaced with the sequence of both SDS 5010 Probability and SDS 5020 Mathematical Statistics. In that case, the student will earn a total of 6 units, with the additional 3 units counted toward electives.

If an equivalent course has been taken and proficiency in the course material has been demonstrated, other 5000-level and above electives may be chosen by the student in consultation with their advisor to make up the 30 units. Typically, at most three electives will be chosen from outside the Department of Statistics and Data Science.

Electives (18 units)

Students will select 5000-level electives primarily from SDS, with up to 9 units from other departments. Any SDS 5000+-level course can count toward the approved 18 units of electives, except for teaching seminars, research, or independent work. Approved outside elective courses are listed below:

Code	Title	Units
BBS 5483	Human Genetic Analysis	3
BIOL 5181	Population Genetics	3
BIOL 5220	Practical Bioinformatics	4
CSE 5100	Deep Reinforcement Learning	3
CSE 5104	Data Mining	3
CSE 5105	Bayesian Methods in Machine Learning	3
CSE 5107	Machine Learning	3
CSE 5109	Advanced Machine Learning	3
CSE 5270	Natural Language Processing	3
CSE 5610	Large Language Models	3
DAT 5550	Machine Learning Tools for Prediction of Business Outcomes	3
DAT 5561	Introduction to Python and Data Science	3
ECON 6110	Econometrics	3
ECON 6140	Machine Learning and Data Science in Economics	3
ECON 6840	Introduction to STATA	1.5
ECON 6850	A First Python Course for Economists	1.5
ECON 8111	Quantitative Methods in Economics II	3

ECON 8130	Structural Microeconometrics	3
ECON 8135	Advanced Microeconometrics	3
ESE 5450	Stochastic Control	3
FIN 5380	Stochastic Foundations for Finance	1.5
FIN 5390	Mathematical Finance	1.5
INFO 5558	Applications of Deep Neural Networks	3
MATH 5011	Introduction to Analysis	3
MATH 5012	Introduction to Lebesgue Integration	3
MATH 5031	Linear Algebra	3
MATH 5051	Numerical Applied Mathematics	3
MATH 5056	Topics in Financial Mathematics	3
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3
POLSCI 5063	Causal Inference	3
POLSCI 5626	Applied Statistical Programming	3
POLSCI 5720	Topics in Quantitative Political Methodology: Computational Social Science	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3

Students may petition for the eligibility of courses outside this list after consultation with their advisor. A list of eligible electives is also available on the Master's Degree Program page on the Department of Statistics and Data Science website. The department's list may be more up to date as additional electives can be added after the update of the Bulletin.

Thesis

A student in the proposed concentration may choose a thesis option to gain data science research experience. To complete this option, each student needs to complete 6 additional units through independent work and research with a faculty advisor, typically during the final two semesters of the program, bringing the total degree requirement to 36 units. To be eligible for the thesis option, a student must maintain a cumulative grade point average of 3.5 or higher in the first 18 units of coursework satisfying the program requirements. It is the student's responsibility to find a thesis advisor who is willing to guide their research. During the student's last semester of studies, the student is required to defend their thesis through a presentation accompanied by a question-and-answer period.

Applying to the Program

Interested majors should consult with the SDS Director of Master's Programs by the beginning of the fall semester of their senior year, before the add/drop deadline, to ensure that all necessary courses will be completed during the senior year. Students are strongly

recommended to contact the program director early. If accepted, students must begin the program in the fall semester immediately after graduation; no deferred admissions are allowed by the Office of Graduate Studies, Arts & Sciences.

International Students

For students in the United States on a visa as undergraduates, staying on to complete an MA creates a change in visa status, which will involve reapplication paperwork. Interested students should check on the details with an international student advisor at the Office for International Students and Scholars.

Statistics and Data Science, Accelerated BA/MA, Statistics Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 units
- **Degree Length:** Two additional semesters
 - **Note:** Students must be enrolled in at least 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to the Add/Drop date.

Statistics and Data Science, Accelerated BA/MA

The Office of Graduate Studies, Arts & Sciences, has an accelerated BA/MA program in which highly qualified WashU undergraduate majors can earn both the BA and MA degrees with two additional semesters of work (usually a total of five years).

This program is only for Washington University undergraduates who, if they participate, must do so in the academic year immediately following graduation of their BA degree (no deferments). Eligibility requires having completed the BA degree from Arts & Sciences or a BA, BS, or BSBA degree from another school or college at Washington University that includes sufficient coursework from the Department of Statistics and Data Science.

For students in the accelerated BA/MA pathway, a minimum of 9 and a maximum of 12 units at 4000-/5000-level with mixed enrollment taken during undergraduate study may be applied to the MA degree, subject to approval. BA/MA students may enroll in the 4000-level version of a 4000/5000 paired course while they are undergraduates, and these units may be applied to the accelerated MA. Once the students become graduate students, in their fifth year, they must take only 5000-level or above graduate courses. Accelerated BA/MA students must complete all BA requirements prior to matriculating into the MA program and are expected to have completed at least 9 graduate-applicable units prior to their fifth year (the +1 master's year).

The application deadline (subject to change by the Office of Graduate Studies, Arts & Sciences) is the March 15 before beginning the MA program in the fall semester following the completion of the Washington University BA degree. Note that the application is made through the department, which forwards it to the Office of Graduate Studies, Arts & Sciences. Applicants must specify in their application that they are applying to the accelerated program.

The program offers two concentrations: Statistics and Applied Data Science. The Statistics concentration is intended for students seeking deeper training in statistical theory, mathematical statistics, and advanced statistical methodology, including those preparing for PhD study or technically intensive statistical work. The Applied Data Science concentration is designed for students who want rigorous training in statistical modeling, computation, and data science, with greater flexibility to connect these tools to domain-specific applications in areas such as biology, economics, political science, psychology, and other data-driven fields. Students in both concentrations must satisfy the general requirements (listed below).

The degree requires 30 units of coursework. Students may also choose an optional thesis pathway, which requires 6 additional units of thesis research, bringing the total requirement to 36 units. The minimum residence requirement is one full academic year of graduate study. A

GPA of B (3.0) or better must be maintained in graduate courses. To be eligible for the thesis option, a student must maintain a cumulative GPA of 3.5 or higher in the first 18 units of courses satisfying the program requirements.

Required Courses

Students must take the following required courses or their equivalents. The required courses differ slightly based on the student's concentration.

Required Courses for the Statistics Concentration

Code	Title	Units
SDS 5010 & SDS 5020	Probability and Mathematical Statistics	6
SDS 5130 or SDS 5521	Linear Statistical Models Advanced Linear Models I	3
SDS 5210	Statistical Computation	3
SDS 5910	Practical Training in Statistics	0
Total Units		12

SDS 5010 Probability may be replaced with SDS 5525 Theory of Statistics I. SDS 5020 Mathematical Statistics may be replaced with SDS 5526 Theory of Statistics II.

If an equivalent course has been taken and proficiency in the course material has been demonstrated, other 5000-level and above electives may be chosen by the student in consultation with their advisor to make up the 30 units. Typically, at most three electives shall be chosen from outside the Department of Statistics and Data Science.

Electives (18 units)

Students will select 5000-level electives primarily from SDS, with up to 9 units from other departments. Any SDS 5000+-level course can count toward the approved 18 units of electives, except for teaching seminars, research, or independent work. Approved outside elective courses are listed below:

Code	Title	Units
BBS 5483	Human Genetic Analysis	3
BIOL 5181	Population Genetics	3
BIOL 5220	Practical Bioinformatics	4
CSE 5100	Deep Reinforcement Learning	3
CSE 5104	Data Mining	3
CSE 5105	Bayesian Methods in Machine Learning	3
CSE 5107	Machine Learning	3
CSE 5109	Advanced Machine Learning	3
CSE 5270	Natural Language Processing	3
CSE 5610	Large Language Models	3
DAT 5550	Machine Learning Tools for Prediction of Business Outcomes	3

DAT 5561	Introduction to Python and Data Science	3
ECON 6110	Econometrics	3
ECON 6140	Machine Learning and Data Science in Economics	3
ECON 6840	Introduction to STATA	1.5
ECON 6850	A First Python Course for Economists	1.5
ECON 8111	Quantitative Methods in Economics II	3
ECON 8130	Structural Microeconometrics	3
ECON 8135	Advanced Microeconometrics	3
ESE 5450	Stochastic Control	3
FIN 5380	Stochastic Foundations for Finance	1.5
FIN 5390	Mathematical Finance	1.5
INFO 5558	Applications of Deep Neural Networks	3
MATH 5011	Introduction to Analysis	3
MATH 5012	Introduction to Lebesgue Integration	3
MATH 5031	Linear Algebra	3
MATH 5051	Numerical Applied Mathematics	3
MATH 5056	Topics in Financial Mathematics	3
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3
POLSCI 5063	Causal Inference	3
POLSCI 5626	Applied Statistical Programming	3
POLSCI 5720	Topics in Quantitative Political Methodology: Computational Social Science	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3

Students may petition for the eligibility of courses outside this list after consultation with their advisor. A list of eligible electives is also available on the Master's Degree Program page on the Department of Statistics and Data Science website. The department's list may be more up to date as additional electives can be added after the update of the Bulletin.

Thesis

A student in the proposed concentration may choose a thesis option to gain data science research experience. To complete this option, each student needs to complete 6 additional units through independent work and research with a faculty advisor, typically during the final two semesters of the program, bringing the total degree requirement to 36 units. To be eligible for the thesis option, a student must maintain a cumulative grade point average of 3.5 or higher in the first 18 units of coursework satisfying the program requirements. It is the student's responsibility to find a thesis advisor who is willing to guide their research. During the student's last semester of studies, the student is required to defend their thesis through a presentation accompanied by a question-and-answer period.

Applying to the Program

Interested majors should consult with the SDS Director of Master's Programs by the beginning of the fall semester of their senior year, before the add/drop deadline, to ensure that all necessary courses will be completed during the senior year. Students are strongly recommended to contact the program director early. If accepted, students must begin the program in the fall semester immediately after graduation; no deferred admissions are allowed by the Office of Graduate Studies, Arts & Sciences.

International Students

For students in the United States on a visa as undergraduates, staying on to complete an MA creates a change in visa status, which will involve reapplication paperwork. Interested students should check on the details with an international student advisor at the Office for International Students and Scholars.

Statistics and Data Science, MA, Applied Data Science Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 units
- **Degree Length:** Three to four semesters
 - **Note:** Students must be enrolled in 9 graduate units each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to the Add/Drop deadline.

Master of Arts in Statistics and Data Science

The degree offers two concentrations: Statistics and Applied Data Science. The Statistics concentration is intended for students seeking deeper training in statistical theory, mathematical statistics, and advanced statistical methodology, including those preparing for PhD study or technically intensive statistical work. The Applied Data Science concentration is designed for students who want rigorous training in statistical modeling, computation, and data science, with greater flexibility to connect these tools to domain-specific applications in areas such as biology, economics, political science, psychology, and other data-driven fields.

There are 30 units of coursework. Students may also choose an optional thesis pathway, which requires 6 additional units of thesis research, bringing the total requirement to 36 units. The minimum residence requirement is one full academic year of graduate study. A GPA of B (3.0) or better must be maintained in graduate courses. To be eligible for the thesis option, a student must maintain a cumulative GPA of 3.5 or higher in the first 18 units of courses satisfying the program requirements.

Required Courses

Students must take the following required courses or their equivalents. The required courses differ slightly based on the student's concentration.

Required Courses for the Applied Data Science Concentration

Code	Title	Units
SDS 5005	Essentials of Probability Models and Statistical Inference	3
SDS 5130	Linear Statistical Models	3
SDS 5210	Statistical Computation	3
SDS 5215	Python for Data Science	3
SDS 5910	Practical Training in Statistics	0
Total Units		12

SDS 5005 Essentials of Probability Models and Statistical Inference may be replaced with the sequence of both SDS 5010 Probability and SDS 5020 Mathematical Statistics. In that case, the student will earn a total of 6 units, with the additional 3 units counted toward electives.

If an equivalent course has been taken and proficiency in the course material has been demonstrated, other 5000-level and above electives may be chosen by the student in consultation with their advisor to make up the 30 units. Typically, at most three electives will be chosen from outside the Department of Statistics and Data Science.

Electives (18 units)

Students will select 5000-level electives primarily from SDS, with up to 9 units from other departments. Any SDS 5000+-level course can count toward the approved 18 units of electives, except for teaching seminars, research, or independent work. Approved outside elective courses are listed below.

Code	Title	Units
BBS 5483	Human Genetic Analysis	3
BIOL 5181	Population Genetics	3
BIOL 5220	Practical Bioinformatics	4
CSE 5100	Deep Reinforcement Learning	3
CSE 5104	Data Mining	3
CSE 5105	Bayesian Methods in Machine Learning	3
CSE 5107	Machine Learning	3
CSE 5109	Advanced Machine Learning	3
CSE 5270	Natural Language Processing	3
CSE 5610	Large Language Models	3
DAT 5550	Machine Learning Tools for Prediction of Business Outcomes	3
DAT 5561	Introduction to Python and Data Science	3
ECON 6110	Econometrics	3
ECON 6140	Machine Learning and Data Science in Economics	3
ECON 6840	Introduction to STATA	1.5
ECON 6850	A First Python Course for Economists	1.5
ECON 8111	Quantitative Methods in Economics II	3
ECON 8130	Structural Microeconometrics	3
ECON 8135	Advanced Microeconometrics	3
ESE 5450	Stochastic Control	3
FIN 5380	Stochastic Foundations for Finance	1.5
FIN 5390	Mathematical Finance	1.5
INFO 5558	Applications of Deep Neural Networks	3
MATH 5011	Introduction to Analysis	3
MATH 5012	Introduction to Lebesgue Integration	3
MATH 5031	Linear Algebra	3
MATH 5051	Numerical Applied Mathematics	3
MATH 5056	Topics in Financial Mathematics	3
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3
POLSCI 5063	Causal Inference	3
POLSCI 5626	Applied Statistical Programming	3

POLSCI 5720	Topics in Quantitative Political Methodology: Computational Social Science	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3

Students may petition for the eligibility of courses outside this list after consultation with their advisor. A list of eligible electives is also available on the Master's Degree Program page on the Department of Statistics and Data Science website. The department's list may be more up to date as additional electives can be added after the update of the Bulletin.

Thesis

A student in the proposed concentration may choose a thesis option to gain data science research experience. To complete this option, each student needs to complete 6 additional units through independent work and research with a faculty advisor, typically during the final two semesters of the program, bringing the total degree requirement to 36 units. To be eligible for the thesis option, a student must maintain a cumulative grade point average of 3.5 or higher in the first 18 units of coursework satisfying the program requirements. It is the student's responsibility to find a thesis advisor who is willing to guide their research. During the student's last semester of studies, the student is required to defend their thesis through a presentation accompanied by a question-and-answer period. Students typically complete their thesis option in three or four semesters.

Statistics and Data Science, MA, Statistics Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.



Program Requirements

- **Total Units Required:** 30 units
- **Degree Length:** Three to four semesters
 - **Note:** Students must be enrolled in 9 graduate units each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to the Add/Drop deadline.

Master of Arts in Statistics and Data Science

The degree offers two concentrations: Statistics and Applied Data Science. The Statistics concentration is intended for students seeking deeper training in statistical theory, mathematical statistics, and advanced statistical methodology, including those preparing for PhD study or technically intensive statistical work. The Applied Data Science concentration is designed for students who want rigorous training in statistical modeling, computation, and data science, with greater flexibility to connect these tools to domain-specific applications in areas such as biology, economics, political science, psychology, and other data-driven fields.

There are 30 units of coursework. Students may also choose an optional thesis pathway, which requires 6 additional units of thesis research, bringing the total requirement to 36 units. The minimum residence requirement is one full academic year of graduate study. A GPA of B (3.0) or better must be maintained in graduate courses. To be eligible for the thesis option, a student must maintain a cumulative GPA of 3.5 or higher in the first 18 units of courses satisfying the program requirements.

Required Courses

Students must take the following required courses or their equivalents. The required courses differ slightly based on the student's concentration.

Required Courses for the Statistics Concentration

Code	Title	Units
SDS 5010 & SDS 5020	Probability and Mathematical Statistics	6
SDS 5130 or SDS 5521	Linear Statistical Models Advanced Linear Models I	3
SDS 5210	Statistical Computation	3
SDS 5910	Practical Training in Statistics	0
Total Units		12

SDS 5010 Probability may be replaced with SDS 5525 Theory of Statistics I. SDS 5020 Mathematical Statistics may be replaced with SDS 5526 Theory of Statistics II.

If an equivalent course has been taken and proficiency in the course material has been demonstrated, other 5000-level and above electives may be chosen by the student in consultation with their advisor to make up the 30 units. Typically, at most three electives shall be chosen from outside the Department of Statistics and Data Science.

Electives (18 units)

Students will select 5000-level electives primarily from SDS, with up to 9 units from other departments. Any SDS 5000+-level course can count toward the approved 18 units of electives, except for teaching seminars, research, or independent work. Approved outside elective courses are listed below:

Code	Title	Units
BBS 5483	Human Genetic Analysis	3
BIOL 5181	Population Genetics	3
BIOL 5220	Practical Bioinformatics	4
CSE 5100	Deep Reinforcement Learning	3
CSE 5104	Data Mining	3
CSE 5105	Bayesian Methods in Machine Learning	3
CSE 5107	Machine Learning	3
CSE 5109	Advanced Machine Learning	3
CSE 5270	Natural Language Processing	3
CSE 5610	Large Language Models	3
DAT 5550	Machine Learning Tools for Prediction of Business Outcomes	3
DAT 5561	Introduction to Python and Data Science	3
ECON 6110	Econometrics	3
ECON 6140	Machine Learning and Data Science in Economics	3
ECON 6840	Introduction to STATA	1.5
ECON 6850	A First Python Course for Economists	1.5
ECON 8111	Quantitative Methods in Economics II	3
ECON 8130	Structural Microeconometrics	3
ECON 8135	Advanced Microeconometrics	3

ESE 5450	Stochastic Control	3
FIN 5380	Stochastic Foundations for Finance	1.5
FIN 5390	Mathematical Finance	1.5
INFO 5558	Applications of Deep Neural Networks	3
MATH 5011	Introduction to Analysis	3
MATH 5012	Introduction to Lebesgue Integration	3
MATH 5031	Linear Algebra	3
MATH 5051	Numerical Applied Mathematics	3
MATH 5056	Topics in Financial Mathematics	3
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3
POLSCI 5063	Causal Inference	3
POLSCI 5626	Applied Statistical Programming	3
POLSCI 5720	Topics in Quantitative Political Methodology: Computational Social Science	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3

Students may petition for the eligibility of courses outside this list after consultation with their advisor. A list of eligible electives is also available on the Master's Degree Program page on the Department of Statistics and Data Science website. The department's list may be more up to date as additional electives can be added after the update of the Bulletin.

Thesis

A student in the proposed concentration may choose a thesis option to gain data science research experience. To complete this option, each student needs to complete 6 additional units through independent work and research with a faculty advisor, typically during the final two semesters of the program, bringing the total degree requirement to 36 units. To be eligible for the thesis option, a student must maintain a cumulative grade point average of 3.5 or higher in the first 18 units of coursework satisfying the program requirements. It is the student's responsibility to find a thesis advisor who is willing to guide their research. During the student's last semester of studies, the student is required to defend their thesis through a presentation accompanied by a question-and-answer period. Students typically complete their thesis option in three or four semesters.

Statistics and Data Science, MA, Statistics for Political Science PhD Students Concentration

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

Program Requirements

- **Total Units Required:** 30 units
- **Degree Length:** Three to four semesters
 - **Note:** Students must be enrolled in 9 graduate units each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to the Add/Drop deadline.

Master's Degree in Statistics for Political Science PhD Students

This program is a tailored master's degree in statistics for graduate students in Political Science. Note that, while the program is designed to serve Political Science graduate students, it is run by the Department of Statistics and Data Science. Students interested in this program will need to begin their additional coursework during their third year of study or before. Students are encouraged to apply for the program in their second year; however, they may prefer to take the additional courses first.

There are 30 units of coursework. Students may also choose an optional thesis pathway, which requires 6 additional units of thesis research, bringing the total requirement to 36 units. The minimum residence requirement is one full academic year of graduate study. A



GPA of B (3.0) or better must be maintained in graduate courses. To be eligible for the thesis option, a student must maintain a cumulative GPA of 3.5 or higher in the first 18 units of courses satisfying the program requirements.

Required Courses

Students must take the following required courses or their equivalents. Please review the information below for the modified course information for Political Science PhD students.

Code	Title	Units
SDS 5010 & SDS 5020	Probability and Mathematical Statistics	6
SDS 5130	Linear Statistical Models	3
SDS 5210	Statistical Computation	3
SDS 5910	Practical Training in Statistics	0
Total Units		12

If an equivalent course has been taken and proficiency in the course material has been demonstrated, other 5000-level and above electives may be chosen by the student in consultation with their advisor to make up the 30 units. Typically, at most three electives shall be chosen from outside the Department of Statistics and Data Science.

Modified Course Requirements

Students must meet the core course requirements for the traditional Master of Arts in Statistics, with two exceptions:

- SDS 5130 Linear Statistical Models may be replaced with POLSCI 5690 Quantitative Political Methodology I and POLSCI 5695 Quantitative Political Methodology II. If the student opts for this substitution, POLSCI 5690 Quantitative Political Methodology I will be counted as a core requirement and POLSCI 5695 Quantitative Political Methodology II will be counted as an elective course.
- SDS 5910 Practical Training in Statistics is not required.

There are three Political Science courses that count toward this master's degree in statistics that are required of all Political Science graduate students:

- POLSCI 5103 Theories of Individual and Collective Choice II
- POLSCI 5690 Quantitative Political Methodology I
- POLSCI 5695 Quantitative Political Methodology II

Note that two of these courses will count toward the three-course limit of electives outside of SDS if SDS 5130 Linear Statistical Models is substituted with POLSCI 5690 Quantitative Political Methodology I and POLSCI 5695 Quantitative Political Methodology II.

These additional details make a total of 18 credits:

- 12 required credits from Statistics courses
- 3 credits from POLSCI 5103 Theories of Individual and Collective Choice II
- 3 additional credits from substituting POLSCI 5690 Quantitative Political Methodology I and POLSCI 5695 Quantitative Political Methodology II for SDS 5130 Linear Statistical Models

Students who do not wish to make the substitution can take SDS 5130 Linear Statistical Models and one additional SDS elective, but only with permission. The remaining 12 credits are completed through electives and an optional thesis.

Students may choose any electives acceptable for the traditional Master of Arts in Statistics. The following additional electives are also available for students in this program:

- POLSCI 5063 Causal Inference
- POLSCI 5626 Applied Statistical Programming
- POLSCI 5720 Topics in Quantitative Political Methodology: Computational Social Science

Electives (18 units)

Students will select 5000-level electives primarily from SDS, with up to 9 units from other departments. Any SDS 5000+-level course can count toward the approved 18 units of electives, except for teaching seminars, research, or independent work. Approved outside elective courses are listed below:

Code	Title	Units
BBS 5483	Human Genetic Analysis	3
BIOL 5181	Population Genetics	3
BIOL 5220	Practical Bioinformatics	4
CSE 5100	Deep Reinforcement Learning	3
CSE 5104	Data Mining	3
CSE 5105	Bayesian Methods in Machine Learning	3
CSE 5107	Machine Learning	3
CSE 5109	Advanced Machine Learning	3
CSE 5270	Natural Language Processing	3
CSE 5610	Large Language Models	3
DAT 5550	Machine Learning Tools for Prediction of Business Outcomes	3
DAT 5561	Introduction to Python and Data Science	3
ECON 6110	Econometrics	3
ECON 6140	Machine Learning and Data Science in Economics	3
ECON 6840	Introduction to STATA	1.5
ECON 6850	A First Python Course for Economists	1.5
ECON 8111	Quantitative Methods in Economics II	3
ECON 8130	Structural Microeconometrics	3
ECON 8135	Advanced Microeconometrics	3
ESE 5450	Stochastic Control	3
FIN 5380	Stochastic Foundations for Finance	1.5

FIN 5390	Mathematical Finance	1.5
INFO 5558	Applications of Deep Neural Networks	3
MATH 5011	Introduction to Analysis	3
MATH 5012	Introduction to Lebesgue Integration	3
MATH 5031	Linear Algebra	3
MATH 5051	Numerical Applied Mathematics	3
MATH 5056	Topics in Financial Mathematics	3
MATH 5151	Measure Theory and Functional Analysis I	3
MATH 5152	Measure Theory and Functional Analysis II	3
POLSCI 5063	Causal Inference	3
POLSCI 5626	Applied Statistical Programming	3
POLSCI 5720	Topics in Quantitative Political Methodology: Computational Social Science	3
PSYCH 8068	Hierarchical Linear Models	3
PSYCH 8167	Applied Bayesian Statistics for Psychologists	3

Students may petition for the eligibility of courses outside this list after consultation with their advisor. A list of eligible electives is also available on the Master's Degree Program page on the Department of Statistics and Data Science website. The department's list may be more up to date as additional electives can be added after the update of the Bulletin.

Thesis

A student in the proposed concentration may choose a thesis option to gain data science research experience. To complete this option, each student needs to complete 6 additional units through independent work and research with a faculty advisor, typically during the final two semesters of the program, bringing the total degree requirement to 36 units. To be eligible for the thesis option, a student must maintain a cumulative grade point average of 3.5 or higher in the first 18 units of coursework satisfying the program requirements. It is the student's responsibility to find a thesis advisor who is willing to guide their research. During the student's last semester of studies, the student is required to defend their thesis through a presentation accompanied by a question-and-answer period. Students typically complete their thesis option in three or four semesters.

Admission Requirements

- To be eligible for this program, students must have already passed POLSCI 5094 Mathematical Modeling in Political Science, POLSCI 5690 Quantitative Political Methodology I, and POLSCI 5695 Quantitative Political Methodology II and earned a grade of A– or A in these courses. Although exceptions have been made in the grade requirements at the request of Political Science faculty, this decision is up to the Department of Statistics and Data Science.

- Students must obtain permission from the methodology field committee in the Department of Political Science.
- Students must formally apply to the Department of Statistics and Data Science Master of Arts program through the Office of Graduate Studies, Arts & Sciences, online portal.

Statistics, PhD

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Degree Requirements

To earn a PhD at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; complete all requirements for doctoral candidacy; fulfill residence and Mentored Experience Requirements; write, defend, and submit a dissertation; and apply for program completion (graduation) via Workday Student.

For the details of doctoral degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Doctoral Degree Academic Information page (p. 42) of the Arts & Sciences *Bulletin*.

Program Requirements

- Total Units Required:** 43
- Degree Length:** Five years
- Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- Grade Requirement:** A GPA of B (3.0) or better is required in graduate coursework.

PhD in Statistics

Degree Requirements Summary

A total of 43 graduate units are required, consisting of the following:

- 18 required coursework units in fundamental topics
- 18 elective coursework units
- Two qualifying exams in statistics
- 1.5 coursework units of the Teaching Seminar Course
- 1.5 coursework units of the Professional Development Course
- 4 coursework units of Statistics and Data Science Seminars



- Departmental mentored experience requirement
- Oral presentation
- Dissertation research, thesis preparation, and defense

General Requirements

Completion of the PhD requires four to five years of graduate study. The student must spend at least one academic year as a full-time student; this requirement cannot be met wholly by summer sessions or part-time study. The student may, with departmental permission, transfer a maximum of 15 graduate credits from other universities. The typical course load is 9 credit units per semester. A GPA of B (3.0) or better is required in graduate coursework.

Teaching experience is an increasingly important component of graduate education for students who seek academic employment. The PhD in Statistics program provides the opportunity for students to work as Assistants in Instruction and to learn how to teach technical topics to students with a wide range of backgrounds.

For the well-prepared student, *normal progress* usually means the following:

- At the end of the first year, the student should have taken qualifying exams in any two of the three sequences in fundamental topics (consult the Specific Course Requirements section below for details).
- At the end of the second year, the student has successfully completed the three sequences of fundamental topics.
- At the end of the third year, the student has completed the candidacy requirement. For more details, visit the Mentored Experience Implementation tab (p. 499) of this page.
- At the end of the fourth year, the student has completed the 43-unit course requirement and is making substantial progress on a thesis.

Students must also complete SDS 5501 Teaching Seminar, which prepares them for both Assistant in Instruction work and academic teaching duties, which are integral to all scholarly activities. For a typical PhD student, the course is taken in the spring of the first year. Each student will have departmental duties (e.g., grading, proctoring) of no more than 15 hours per week as Assistants in Instruction. Students must also complete SDS 5502 Professional Development. PhD students must also register for SDS 5503 Statistics and Data Science Seminar for four semesters during their PhD. This is a 1-credit-unit course taken for a total of 4 credit units.

Please note that the sequence outlined above is for well-prepared students. The exact point at which any student enters the sequence depends on their ability and background. When warranted, deviation from the normal sequence is permissible, and a tailored program that fits the student's ability and background will be followed.

Specific Course Requirements

Students will have to *complete the following three sequences* in fundamental topics for a total of 18 required coursework units:

Pick one of the following four course pairs:

Code	Title	Units
SDS 5515 & SDS 5516	Probability Theory for Statistics and Data Science and Theory of Statistical Inference	6
SDS 5525 & SDS 5526	Theory of Statistics I and Theory of Statistics II	6
SDS 5525 & SDS 5516	Theory of Statistics I and Theory of Statistical Inference	6
SDS 5515 & SDS 5526	Probability Theory for Statistics and Data Science and Theory of Statistics II	6

In addition to completing one of the course pairings above, students must also complete the following two sequences:

Code	Title	Units
SDS 5521 & SDS 5522	Advanced Linear Models I and Advanced Linear Models II	6
SDS 5531 & SDS 5532	Advanced Statistical Computing I and Advanced Statistical Computing II	6
Total Units		12

In exceptional circumstances, departmental permission may be requested to replace one of these sequences with a suitable alternative. The student may also petition the department to waive one or more of these sequences because of work completed previously.

Prerequisites, if needed, are advanced undergraduate courses in linear algebra and real analysis. Such courses would count as 0 credits toward the PhD degree if taken during the PhD.

At the end of the first year, the PhD student should have taken the qualifying exams *in any two of the above three sequences*. In each of the qualifying exams taken, students can obtain either a Pass, a Conditional Pass, or a No Pass. These denominations will be determined by the instructor, the DGS, and the graduate committee. *Pass* reflects successful performance in both the course sequence and the additional exam related to the sequence. *Conditional Pass* indicates that the student has not performed satisfactorily in either 1) a portion of the course sequence or 2) the exam related to the course sequence. A Conditional Pass might result, for example, from a B or higher grade for the sequence but underperformance on the related additional exam. *No Pass* will be assigned to a student who underperforms in both the sequence (two courses) as well as on the additional related exam, effectively constituting extreme underperformance. Consult the Qualifying Examinations and Candidacy Requirements section below for more information about qualifying examinations.

Students must maintain a 3.0 or better grade average in qualifying courses. This is separate from the general graduate school requirement of a 3.0 GPA in all graduate courses. Conceivably, a student could receive a low grade in a qualifying course and as long as they pass an exam given later and keep their average qualifying grade point average at 3.0 or above, then they would be satisfying the requirements.

PhD students are also required to complete SDS 5501 Teaching Seminar and SDS 5502 Professional Development. Each of these two courses is 1.5 credit units. PhD students must also register for SDS 5503 Statistics and Data Science Seminar for four semesters during their PhD. This is a 1-credit-unit course taken for a total of 4 credit units. SDS 5501 Teaching Seminar is typically taken in the spring semester of the student's first year. SDS 5502 Professional Development is typically taken in the fall semester of the student's second year. Departmental permission may be requested to replace one of these sequences with a suitable alternative. In exceptional circumstances, departmental permission may be requested to postpone or waive one or more of these courses.

Prior to finding a research advisor, students are welcome to take any of the Department of Statistics and Data Science 5000-level statistics electives, and they may also take reading courses with statistics faculty members (SDS 5000 Independent Work/SDS 5900 Research). Statistics electives offered by the department include the following:

Code	Title	Units
SDS 5070	Stochastic Processes	3
SDS 5120	Survival Analysis	3
SDS 5155	Time Series Analysis	3
SDS 5210	Statistical Computation	3
SDS 5310	Bayesian Statistics	3
SDS 5430	Statistical Learning	3
SDS 5440	Mathematical Foundations of Big Data	3
SDS 5480	Topics in Statistics	3
SDS 5595	Topics in Statistics: Spatial Statistics	3
SDS 5800	Topics in Statistics	3
SDS 5215	Python for Data Science	3
SDS 5320	Foundations for Causal Inference	3
SDS 5425	Data Mining Methods and Applications	3
SDS 5540	Statistical Network Analysis	3

Students will enroll in ASGS 9000 Full-Time Graduate Research/Study in any semester in which they are not enrolled full-time in graduate-level coursework.

Elective courses taken in other departments allow students to supplement their statistics coursework with other topics that may be helpful for their research and professional development. Some popular elective courses offered by other departments include the following:

Code	Title	Units
CSE 5101	Introduction to Artificial Intelligence	3
CSE 5104	Data Mining	3
CSE 5109	Advanced Machine Learning	3
CSE 5401	Advanced Algorithms	3
ESE 4150	Optimization	3
ESE 5200	Probability and Stochastic Processes	3
ESE 5230	Information Theory	3
MATH 5056	Topics in Financial Mathematics	3
MATH 5151	Measure Theory and Functional Analysis I	3

MATH 5152	Measure Theory and Functional Analysis II	3
MATH 5016	Complex Variables	3
MATH 5051	Numerical Applied Mathematics	3
PHS 5140	Randomized Controlled Trials	3

Language Requirement

All students must demonstrate proficiency in English.

If English is not the student's native language, they must pass an oral English proficiency exam with a grade of 3 or better. If the student does not score a 3 the first time they take the exam, the director of English Language Programs for Arts & Sciences will recommend that the student take one or more classes to improve reading, writing, pronunciation, listening, or speaking skills. After the recommended classes have been completed, the student is required to retake the English proficiency exam. Once the student has demonstrated the ability to handle teaching a class (by scoring a 3 or better on the exam), they will qualify for Assistant in Instruction or Course Instructor duties.

Qualifying Examinations and Candidacy Requirements

The qualifying exam and candidacy requirements constitute two separate requirements. The qualifying exam is a series of two written tests that cover a range of topics; the candidacy requirement is an oral presentation and thesis proposal.

The written tests cover the material in two of the following three sequences:

- Pick one of the following four course pairs:
 - SDS 5515 Probability Theory for Statistics and Data Science and SDS 5516 Theory of Statistical Inference
 - SDS 5525 Theory of Statistics I and SDS 5526 Theory of Statistics II
 - SDS 5525 Theory of Statistics I and SDS 5516 Theory of Statistical Inference
 - SDS 5515 Probability Theory for Statistics and Data Science and SDS 5526 Theory of Statistics II
- SDS 5521 Advanced Linear Models I and SDS 5522 Advanced Linear Models II
- SDS 5531 Advanced Statistical Computing I and SDS 5532 Advanced Statistical Computing II

Each spring, at the end of SDS 5516 Theory of Statistical Inference (or SDS 5526 Theory of Statistics II), SDS 5522 Advanced Linear Models II, and SDS 5532 Advanced Statistical Computing II, all students enrolled in these courses take a two-hour final exam; this exam usually covers the second half of the sequence. Doctoral candidates take an additional one-hour exam that covers the two courses of each sequence. To pass the qualifying exam of the sequences, the student must pass the three-hour combined exam.

In each of the qualifying exams taken, students can obtain either a Pass, a Conditional Pass, or a No Pass. These denominations will be determined by the instructor, the DGS, and the graduate committee. *Pass* reflects successful performance in both the course sequence and the additional exam related to the sequence. *Conditional Pass* indicates that the student has not performed satisfactorily in either 1) a portion of the course sequence or 2) the exam related to the course sequence. A Conditional Pass might result, for example, from a B or higher grade for the sequence but underperformance on the related additional exam. *No Pass* will be assigned to a student who underperforms in both the sequence (two courses) as well as on the additional related exam, effectively constituting extreme underperformance.

In the case of a Conditional Pass, the student is placed on probation, per the OGS Policy on Probation and Dismissal for Academic Reasons. The DGS in consultation with the graduate committee will determine what additional work is required for the student to pass the corresponding qualifier and return to good standing. This may include an independent exam or an independent studies course with a faculty related to the subject within one year. Such work must be detailed in writing for the student, and the department will keep this probation letter, along with the outcome, as part of the student's record.

Students who obtain a No Pass grade in one of the qualifiers, reflecting both underperformance in both courses of the sequence and on the related exam, will be considered to be in extreme academic underperformance and dismissed from the doctoral program, consistent with OGS policy. The department will follow the OGS Policy on Probation and Dismissal for Academic Reasons. If desired, the student may continue to pursue the Statistics MA degree with an additional year of coursework. During this last year, the student will not receive graduate funding and will pay tuition as a regular MA student.

Because each sequence varies somewhat in content from year to year, it is recommended that the student take each set of exams at the conclusion of the sequence in which they are enrolled. No advantage is gained by delaying the exam for a year. It is desirable to make every effort to finish all three exams by the end of the second year of study.

Some students will enter the PhD program with previously acquired expertise in one or more of the three basic sequences. This situation sometimes happens with students who transfer from other PhD programs or who come from certain foreign countries. Such students may formally petition the Director of Graduate Studies to be exempted from the appropriate course and its qualifying exam. The petition must be accompanied by hard evidence (e.g., published research, written testimony from experts, records of equivalent courses, examinations and the grades achieved on them). The graduate committee will make the final judgment on all exemption requests.

Once the written phase of the qualifying process is complete, the student is ready to begin specialized study. By the end of the second year of study, the student must form a preliminary thesis committee called a Research Advisory Committee (RAC) that includes their advisor and at least two other faculty members. In discussion with the advisor and the preliminary thesis committee, the student will select a topic, and a body of literature related to this topic. The student will prepare

a one-hour oral presentation related to the topic and a two-page thesis proposal that demonstrates mastery of the selected topic. The oral presentation is designed to expedite specialized study and to provide guidance toward the thesis. The preparatory work for the thesis proposal often becomes the foundation on which the thesis is constructed. The student must complete the candidacy requirement (oral presentation and thesis proposal) by the end of the third year of study.

After the student completes the oral presentation, work on the thesis begins.

Dissertation and Thesis Defense

The student's dissertation is the single most important requirement for the PhD degree; it must be an original contribution to the knowledge of data science, statistics, probability, and/or applied probability and is the student's opportunity to conduct significant independent research.

It is the student's responsibility to find a thesis advisor who is willing to guide their research. Since the advisor should be part of the oral presentation committee, the student should have engaged an advisor by the beginning of their second year of study.

Once the department has accepted the dissertation (on the recommendation of the thesis advisor), the student is required to defend their thesis through a presentation accompanied by a question-and-answer period.

For information about preparing the thesis and its abstract as well as the deadlines involved, including the creation of the Research Advisory Committee and the Dissertation Defense Committee, please consult the Office of Graduate Studies, Arts & Sciences. Please use these additional relevant resources: the Doctoral Dissertation Guide, the Forms page, and the Policies and Procedures page.

Qualifying Examinations

Progress toward the PhD is contingent upon the student passing examinations that are variously called *preliminary*, *qualifying*, *general*, *comprehensive*, or *major field exams*. The qualifying process varies according to the program. In some programs, it consists of a series of incremental, sequential, and cumulative exams over a considerable time. In others, the exams are held during a relatively short period of time. Exams may be replaced by one or more papers. The program, which determines the structure and schedule of the required examinations, is responsible for notifying the Office of Graduate Studies, Arts & Sciences, of the student's outcome, whether successful or unsuccessful.

Doctoral Candidacy

Candidacy marks the transition from coursework and initial study to independent research and dissertation writing. At this stage, the student is considered prepared to contribute to their field through independent scholarship.

The status of candidacy for WashU Arts & Sciences doctoral students indicates a student has, at minimum, completed and passed their qualifying exam/paper and pre-candidacy requirements. Pre-candidacy requirements are determined by each PhD program. Those requirements may include, for example, completion of required coursework; completion of required foreign language exams; completion of the Mentored Experience Requirement; successful submission of the Title, Scope and Procedure form; and completion of the oral presentation to propose the dissertation to their Research Advisory Committee.

Mentored Experience Requirement

Doctoral students, MFA in Writing students, and MFA in Dance students at Washington University must complete a department-defined Mentored Experience Requirement. The Mentored Experience Requirement is a degree requirement that is notated on the student's transcript when complete. Each department has an established Mentored Experience Implementation Plan in which the number of units that a student must earn through Mentored Teaching Experience(s) and/or Mentored Professional Experience(s) is defined. Each Mentored Experience Implementation Plan outlines how doctoral students within the discipline will be mentored to achieve competencies in teaching at basic and advanced levels. Some departments may elect to include Mentored Professional Experiences as an avenue for completing some units of the Mentored Experience Requirement. Doctoral students will enroll in ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience; ASGS 8020 MTE - Mentored Independent Teaching Experience; or ASGS 8120 MTE - Mentored Professional Experience to signify their progression toward completing the overall Mentored Experience Requirement for the degree.

The Doctoral Dissertation

A Research Advisory Committee (RAC) must be created no later than the end of the student's second year; departments may set shorter timelines (e.g., by the end of the student's third semester) for this requirement. As evidence of the mastery of a specific field of knowledge and of the capacity for original scholarly work, each candidate must complete a dissertation that is approved by their RAC.

A Title, Scope, and Procedure form for the dissertation must be signed by the committee members and by the program chair. It must be submitted to the Office of Graduate Studies, Arts & Sciences, at least one year before the degree is expected to be conferred or before beginning the eighth semester of full-time enrollment, whichever is earlier.

A Doctoral Dissertation Guide and a Dissertation Template that give instructions regarding the format of the dissertation are available on the website of the Office of Graduate Studies, Arts & Sciences. Both should be read carefully at every stage of dissertation preparation.

The Office of Graduate Studies, Arts & Sciences, requires each student to make the full text of the dissertation available to the committee members for their review at least one week before the defense. Most degree programs require two or more weeks for the review period; students should check with their faculty.

The Dissertation Defense

Approval of the written dissertation by the Research Advisory Committee (RAC) is strongly recommended before the student can orally defend the dissertation. The Doctoral Dissertation Committee that examines the student during the defense consists of at least five members. Normally, the members of the RAC also serve on the Doctoral Dissertation Committee. The dissertation committee is then additionally augmented to ensure that the following criteria are met:

1. Three of the five members (or a similar proportion of a larger committee) must be full-time Washington University in St. Louis faculty members or, for programs involving Washington University in St. Louis-affiliated partners, full-time members of a Washington University in St. Louis-affiliated partner institution. All members must be authorized to supervise PhD students and have appropriate expertise in the proposed field of study. One of these three members must be the PhD student's primary thesis advisor, and one may be a member of the emeritus faculty.
2. All other committee members must be active in research/scholarship and have appropriate expertise in the proposed field of study whether at Washington University in St. Louis, at another university, in government, or in industry.
3. At least one of the five members must bring expertise outside of the student's field of study to the committee, as judged by the relevant department/program and approved by the Office of Graduate Studies, Arts & Sciences.

The approval processes outlined in the RAC section of the Doctoral Council bylaws also apply to the Doctoral Dissertation Committee, including approval of each dissertation committee by the Office of Graduate Studies, Arts & Sciences.

The student is responsible for making the full text of the dissertation accessible to their committee members for their review in advance of the defense according to program rules. Washington University in St. Louis community members and guests of the student who are interested in the subject of the dissertation are normally welcome to attend all or part of the defense but may ask questions only at the discretion of the committee chair. Although there is some variation among degree programs, the defense ordinarily focuses on the dissertation itself and its relation to the student's field of expertise.

Attendance by a minimum of four members of the Doctoral Dissertation Committee, including the committee chair and an outside member, is required for the defense to take place. This provision is designed to permit the student's defense to proceed in case of a situation that unexpectedly prevents one of the five members from attending. Students should not plan in advance to only have four members in attendance. If four members cannot attend, the defense must be rescheduled. The absence of all outside members or of the committee chair also requires rescheduling the defense.

Students, with the support of their Doctoral Dissertation Committee chair, may opt to hold their dissertation defense in person or by utilizing a virtual or hybrid format.

Submission of the Dissertation

After the defense, the student must submit an electronic copy of the dissertation online to the Office of Graduate Studies, Arts & Sciences, by the established deadline for their graduation term. Dissertations must be submitted no later than three months after the oral defense of the dissertation. Petitions for an extension to the three-month limit may be submitted to the director of graduate studies for consideration and approval.

The submission website requires students to choose among publishing and copyrighting services offered by ProQuest's ETD Administrator. Students are asked to submit the Survey of Earned Doctorates separately. The degree program is responsible for delivering the final approval form, signed by the committee members at the defense and then by the program chair or director, to the Office of Graduate Studies, Arts & Sciences. Students who defend their dissertations successfully have not yet completed their PhD requirements; they finish earning their degree only when their dissertation submission has been accepted by the Office of Graduate Studies, Arts & Sciences.

Master's Degree Along the Way/ In Lieu of a PhD

Students typically spend their first two years (four semesters) taking graduate courses. At the end of this time, they will typically have completed the requirements for the master's degree. This consists of 30 credits of coursework, which includes the qualifier courses (18 credits) and four elective courses (12 credits) taken from the approved list of electives. Note that PhD students are not required to complete SDS 5910 Practical Training in Statistics. The list of approved eligible electives will be listed in this Bulletin. Students may petition for the eligibility of courses outside of this list after consultation with their advisor. The master's degree in lieu of a PhD can also be obtained for other reasons, such as when a student underperforms on their PhD qualifiers.

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Statistics and Data Science (SDS) are interdisciplinary subjects in the interplay of mathematics, computer science, and even philosophy. Effective instruction of these disciplines is essential for the professional development of students regardless of whether they choose to go to academia or industry upon completion of the PhD program. Teaching is widely recognized not only as an effective method to develop communication and organizational skills but also as a practice conducive to deeper understanding of concepts, tools, and theories and eventually the creation of breakthroughs and new knowledge. Furthermore, SDS plays a fundamental role in many other disciplines that analyze data to infer valid conclusions and, hence, produce better decision making.

Our program wants PhD students to receive adequate preparation in teaching and instructional methodology so that they will be effective in the classroom at WashU as well as be able to start their new positions with success upon completion of their PhD.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

SDS requires two preparatory engagements:

1. Students must complete one 1.5-credit semester course during the spring of their first year: SDS 5501 Teaching Seminar. This course is taught by exceptionally experienced and talented teaching faculty in the department from a detailed syllabus of topics. Topics covered during the course include group discussion of issues and methods in teaching and learning, creating classroom activities, giving teaching demonstrations, and writing teaching statements. Students will learn that teaching others provides both excellent communication skills and a deep understanding of statistical thinking. Direct mentoring is provided to the students when serving in the role of Assistant in Instruction (AI).
2. Students must register and attend the SDS seminar series: SDS 5503 Statistics and Data Science Seminar. Students learn more effective communication and presentation skills by observing the presentations of experienced researchers and scientist.

Campus resources such as the Center for Teaching and Learning (CTL) are utilized for additional information about effective teaching methodology.

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

SDS provides a planned sequence of teaching opportunities. During the students' second year of studies, they begin service in the SDS help room mentoring undergraduate students with questions in their introductory statistics classes. They may also take on a more active teaching opportunity by serving as an AI for those introductory statistics courses. PhD students are assigned two to four sections of introductory statistics or data science courses to assist with when serving as an AI. This involves preparing jointly with the instructor weekly recitations or labs and leading one of such 50-minute recitations per week. Other PhD students may be assigned to AI in the capacity of graders for more advanced courses. Students are mentored on how to assess valid arguments or conclusions from fundamental axioms and principles.

SDS PhD students will be required to observe faculty members' classes and write a report and give short teaching presentations of their own. Student presentations are recorded so they can be critiqued, and further comments can be provided.

Mentored Independent Teaching (MIT)

MIT is a semester-long experience for PhD students who engage as the primary instructor or co-instructor of a course *under the mentorship of a faculty member* as part of the MER. Students and mentors complete a mentorship plan prior to the start of each MIT experience. To complete each MIT assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number (ASGS 8020 MTE - Mentored Independent Teaching Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

SDS does not require MIT, although students may be able to engage in MIT as part of a Teaching Intensive Pathway (TIP). Feedback on teaching and instruction is provided by the instructor of the course through observations of the graduate student and through meetings for the course.

Mentored Professional Experiences (MPEs)

The MPE is an unpaid professional experience for PhD students that allows students to develop skills and experiences relevant to their intended career outcomes. Students and mentors complete a mentorship plan prior to the start of each MPE. To complete each MPE assignment and to ensure that it applies toward their degree requirements, students must submit the Mentorship Registration Request form for approval and register for the appropriate course number (ASGS 8120 MTE - Mentored Professional Experience) for each semester of engagement. Refer to the "Required Pathways for Completion" section below for more details.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

Several different pathways are possible to complete the MER. The possible pathways are listed below. When a student is an AI, they register for ASGS 8005 MTE - Assistant in Instruction Experience, ASGS 8010 MTE - Assistant in Instruction Experience, or ASGS 8015 MTE - Assistant in Instruction Experience given their role and number of hours per week required (5, 10, or 15) during the semester of engagement.

Pathway #1

ASGS 8010	Take four times
ASGS 8015	Take two times
ASGS 8120	Take one time

Pathway #2

ASGS 8005	Take two times
ASGS 8010	Take three times
ASGS 8015	Take two times
ASGS 8120	Take one time

Pathway #3

ASGS 8005	Take four times
ASGS 8010	Take two times
ASGS 8015	Take two times
ASGS 8120	Take one time

Optional Activity: Teaching Intensive Pathway (TIP)

The TIP is an optional pathway for those students whose career interests lie in academia or another field that would benefit from extended teaching experiences. This immersive experience allows students to further explore the breadth and depth of teaching best practices and pedagogy related to their respective field. Students who are interested in participating in this elective experience must formally request to participate, which is subject to program approval. Due to this experience being an elective, unpaid experience, students who participate in the TIP will not receive compensation.

SDS allows a TIP for 20 total MER units.

Optional Pathway #1

ASGS 8010	Take two times

Optional Pathway #2

ASGS 8020	Take one time

Women, Gender, and Sexuality Studies

Dual Doctor of Laws/ Master of Arts in Women, Gender, and Sexuality Studies

The Doctor of Laws/Master of Arts in Women, Gender, and Sexuality Studies (WGSS) is a truly dual program in which students, under close mentoring by advisors in both Law and WGSS, take a carefully selected set of courses at WashU Law and in Arts & Sciences that are tailored to the students' interests. Course work in Arts & Sciences provides students with advanced training in issues of gender, sexuality, race/ethnicity, class, and disability. Whether they come from a gender and sexuality studies background already or they are looking to supplement their JD with a gender and sexuality studies perspective, this program is designed to prepare lawyers with a deep understanding of the cultural impacts of gender and sexuality in the workplace, in policy, and in law.

Graduate Certificate in Women, Gender, and Sexuality Studies

Our graduate certificate program allows students in Arts & Sciences PhD programs to enhance their disciplinary studies with a concentration in gender studies.

This program offers graduate certificate students an opportunity to meet and work with graduate students in other departments. Graduate certificate students are on the program's mailing lists and are invited to participate in a variety of events, including special guest lectures, conferences, faculty searches, and informal gatherings.

In WGSS, graduate certificate students may engage in a teaching pedagogy opportunity. The teaching pedagogy opportunity in WGSS takes place over two semesters. During the first semester, students undergo teaching preparation in which they observe the class that they will teach. They are mentored by the instructor, and they attend instructor meetings devoted to examining content and pedagogy. In addition, they develop a syllabus — often in consultation with their WGSS teaching mentor and their department advisor — that is reviewed carefully by WGSS faculty. These students may be undergoing mentored teaching experiences in their own departments during this first semester. During the next semester, students teach the WGSS course, and they are observed by WGSS faculty and, in some cases, by faculty in their own departments. These faculty use a rubric for the student's assessment that is made available to the student. Students receive a written assessment that they then discuss with the observing WGSS faculty member. Sometimes, students are observed and assessed more than once. Participation in this program broadens students' teaching experiences and their credentials for future job opportunities. The following departments/programs are involved in this certificate: Anthropology, Art History, Education, English, German, History, Philosophy, Political Science, and Romance Languages and Literatures.

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Women, Gender, and Sexuality Studies; American Studies

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Cynthia Barounis

Senior Lecturer
PhD, University of Illinois Chicago
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PhD, Indiana University Bloomington
Interdisciplinary Project in the Humanities; Women, Gender, and Sexuality Studies

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Assistant Professor
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Women, Gender, and Sexuality Studies; American Studies

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Assistant Professor
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Professor, Women, Gender, and Sexuality Studies
PhD, Duke University
Women, Gender, and Sexuality Studies

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Professors Emeritus

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Germanic Languages and Literatures

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Gaylyn Studlar

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PhD, University of Southern California
Film and Media Studies

Lynne Tatlock

Hortense and Tobias Lewin Distinguished Professor in the Humanities
PhD, Indiana University
Germanic Languages and Literatures

Karen Tokarz

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LLM, University of California, Berkeley
Law

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Adia Harvey Wingfield

Professor
PhD, Johns Hopkins University
Sociology

Colette Winn

Professor
PhD, University of Missouri-Columbia
Romance Languages and Literatures

Degree Requirements

- Women, Gender, and Sexuality Studies, Graduate Certificate (p. 507)
- Women, Gender, and Sexuality Studies, JD/MA (p. 507)

Courses

WGSS 5000 Advanced Feminist Theory

The purpose of this course is to engage students with some of the most important debates within feminist theory. These debates will include those that have emerged among scholars across disciplines. We will also explore how major ideas about feminism and feminist objects of study circulate in the public sphere. Students will be introduced to foundational texts and recent work in the field. We will also explore the relationship between theory and practice.
Credit 3 units.

Typical periods offered: Spring

WGSS 5006 Advanced Topics in Trans Theories: Femme

In the current moment, femme is used to index a variety of gender and sexual expressions. This course explores the aesthetics and politics of femme through the lens of trans theories. A quick search for femme in relation to gender and sexuality will show that one of its origin stories is within lesbian communities often in relation to the butch/femme relationship. The lipstick lesbian is the figure who emerges here as exemplifying a kind of adherence to traditional forms of femininity even while being queer. Trans women are often criticized for attachments to similar forms of gender expression. Femininity is often derided as unserious or, worse, hopelessly entangled in the dynamics of heteropatriarchy. To be feminine, then, is often taken as a sign of a retrograde politics or submission to normative ideals of gender. This course will take up this problem as a way of beginning to think through what interventions femme might make into our ordinary ways of understanding gender and sexuality.
Credit 3 units. A&S IQ: HUM, SC BU: HUM EN: H

WGSS 5012 Seminar: Medieval Gender and Sexuality

Credit 3 units.

WGSS 5014 Queer of Color Critique

That sensation produces surplus, often uncontrollable knowledge, is something that is beginning to be explored in various arenas of queer theory as an important component of queer of color critique. This seminar will explore different sensational arenas, the different possible critiques that they produce, and what this means for thinking about sexuality, gender, and queer theory. Throughout the course of the semester, we will explore sensation in multiple ways 1) as a diagnostic tool for understanding some of the different ways that race, gender, and sexuality intersect 2) as a way to trouble the dichotomy between interiority and exteriority to understand the ways in which orders of knowledge become imprinted on the body 3) as a mode of producing alternate forms of knowledge about gender, race, and sexuality. In addition to reading about different sensations and their relationships to politics and sexuality, this course will require students to think creatively as they attempt to write about sensation, sexuality, and politics. Ultimately, the purpose of this class is to examine sexuality and sensation as collections of embodied and politicized experiences. Prerequisite: Introduction to Women, Gender, and Sexuality Studies (L77 100B) or permission of instructor.
Credit 3 units. A&S IQ: HUM, SC BU: HUM EN: H

WGSS 5017 Healing and Social Justice

Credit 3 units.

WGSS 5020 Critical Sexuality Studies

This seminar introduces graduate students with diverse interests to some key and core works in the field of critical sexuality studies. Using an interdisciplinary approach, the course conducts a critical inquiry into the historical precedents, theoretical frameworks, and contemporary currents necessary to understand the role of sexuality in organizing personal, social, economic, and political life. To this end, the course will give special attention to intersections of sexuality with gender, race, ethnicity, religion, class, and ability/disability. Credit 3 units.

WGSS 5085 Everyday Unruliness: Feminist and Queer Resistance

This course is interested in the ways ordinary people break rules, flout norms, and make trouble. We know that resistance manifests in social movements, militant activism, and direct confrontation, but it also comes through quieter acts of unruliness and noncompliance. Looking at power from below, readings focus on everyday interventions in systems of control. Garment workers threaten good pay or bum work, queers fail at reproductive heterosexuality, and shiftless people steal moments of leisure from a system that wants us either productive or dead. These acts may not be obviously political, but because people at the margins have so often been left outside (and also opt out) of formal politics, subtle resistance is particularly interesting for feminist and queer scholars. Everyday acts do threaten the status quo -- otherwise, why would they be so rigidly policed? But questions remain. Throughout the semester, we will ask the following: What counts as resistance? What are its ethics? When is a bad attitude an act of rebellion, and does it matter if that rebellion is conscious? Does survival constitute resistance for those not meant to survive? On the other hand, for those subjects whose active engagement sustains the status quo, is withdrawal the more radical choice? Does the refusal of sociality constitute a form of resistance? Or are there ways to forge communities of mutual care that erode the status quo rather than reproduce it? Prerequisite: L77 110B (Intro to Women, Gender, and Sexuality Studies) or permission of instructor.

Credit 3 units. A&S IQ: SSC, SC Art: SSC BU: BA EN: S

WGSS 5115 Gender, Religion, Medicine and Science

Have you ever wondered why some topics are argued using religion as a guide, while others may approach the topic from what is perceived as a strictly scientific point of view? This course explores how and why gender and sexuality tend to be at the center of debates that pit Medicine and Science against Religion. Using feminist and queer scholarship, this course explores five hundred years of rhetorical strategies related to defining, or regulating, gender and sexuality. We will consider how much debates have changed from sixteenth-century Europe to 21st century United States by asking when, why and how either Medicine & Science or Religion influenced social thought and laws. Finally, we will consider how, and if, contemporary debates on vaccines are either part of the long history of debating bodily autonomy (as is the case with the other topics addressed in class), or if the conflict between religion, medicine and science in the modern era is new and distinctly different from past rhetorical strategies. Prerequisite: Introduction to Women, Gender and Sexuality Studies Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: ETH, HUM, IS EN: H

WGSS 5142 Feminist and Queer Research Methodologies

What does it mean to do research through the lens of feminist and queer politics? This course surveys key methodological approaches to feminist and queer research. Interdisciplinary at its core, it draws from methodological traditions across the humanities and social sciences while focusing on forms of inquiry that resist these boundaries. We explore how feminist and queer politics inform the work of knowledge production. We ask how scholars, organizers and artists engage and repurpose various research methodologies and how they reflect

on the politics of power, experience, domination, and resistance in the research encounter. We ask who research is for, parsing the political stakes of scholarship that archives the stories of collective resistance, survival, collaboration, and domination, at the same time as it authorizes hierarchies of expertise, builds institutional power, and (too often) extracts from those studied. What might a redistributive approach to feminist and queer research look like? This class is a writing intensive course. Waitlists controlled by Department; priority given to WGSS majors.

Credit 3 units. A&S IQ: SC, WI

Typical periods offered: Fall

WGSS 5150 Feminist Literary and Cultural Theory

This course provides a historical overview of feminist literary and cultural theories since the 1960s and 70s, acquainting students with a diversity of voices within contemporary feminism and gender studies. Readings will include works of French feminism, Foucault's History of Sexuality, feminist responses to Foucault, queer (LGBTQ+) theory, postcolonial and decolonial feminism, feminist disability theory, and writings by US feminists of color (African-American, Asian-American, Latina, Native-American). The reading list will be updated each year to reflect new developments in the discipline. We will approach these readings from an intersectional and interdisciplinary perspective, considering their dialogue with broader sociopolitical, cultural, and philosophical currents. By the end of the course, students are expected to have gained a basic knowledge of the major debates in feminist literary and cultural studies in the last 50 years, as well as the ability to draw on the repertoire of readings to identify and frame research questions in their areas of specialization. The class will be largely interactive, requiring active participation and collaborative effort on the part of the students. Students will be encouraged to make relevant connections between the class readings, everyday social and political issues, and their own research interests. NOTE: This course is in the core curriculum for the Women, Gender, and Sexuality Studies graduate certificate. Prerequisite: advanced course work in WGSS or in literary theory (300 level and above) or permission of the instructor. Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: HUM EN: H

WGSS 5165 From Mammy to the Welfare Queen: African American Women Theorize Identity

How do representations of identity affect how we see ourselves and the world sees us? African American women have been particularly concerned with this question, as the stories and pictures circulated about black female identity have had a profound impact on their understandings of themselves and political discourse. In this course we will look at how black feminist theorists from a variety of intellectual traditions have explored the impact of theories of identity on our world. We will look at their discussions of slavery, colonialism, sexuality, motherhood, citizenship, and what it means to be human. Credit 3 units. A&S IQ: HUM, SC BU: HUM EN: H

WGSS 5170 Feminist Research Methodologies

Credit 3 units.

WGSS 5200 Feminist Political Theory

This course asks how feminist thinkers from various political and intellectual traditions critique, adopt and transform political theories of justice, citizenship, property and the state. To uncover how different feminist theories have been adopted in the struggle for political transformation and social justice, we will pursue two main lines of inquiry. The first asks how feminist thinkers from various traditions critique and engage the history of political thought within the social contract tradition. We will ask, in particular, how gender, race, slavery, colonialism and empire shape conceptions of citizenship and property. We will also examine transnational feminist critiques of the public/private division in the Western political theory canon as it impacts the

role of women and the social construction of women's bodies. During the second half of the semester, we will ask how various transnational social movements have engaged and adopted feminist theories in efforts to resist state violence, colonialism, labor exploitation and resource extraction. In following these lines of inquiry we will draw from postcolonial, decolonial, liberal, Black, radical, Marxist and Chicana feminist perspectives. Part of our goal will be to uncover how various feminist theories treat the relationship between politics and embodied experience, how gendered conceptions of family life affect notions of political power and how ideas about sexuality and sexual conquest intersect with empire-building. Majors and minors in WGSS receive first priority. Other students will be admitted as course enrollment allows.

Credit 3 units. A&S IQ: HUM, SC Arch: HUM Art: HUM BU: BA, HUM EN: H

WGSS 5245 Transnational Feminisms

This course examines contemporary feminist movements and theories in a global context. Through engagement with key works of feminist and queer theory, political manifestos, and cultural production, we will explore how transnational feminist and queer alliances and coalitions have contested gendered, racialized and class-based forms of exploitation and violence, building alternative futures. We will interrogate the meaning of "global" and "transnational" as a descriptor for a variety of practices and processes from a geographically diverse set of places, and as an analytic to understand the gendered, racialized, colonial, and classed impact of these practices. We will trace how thinkers and activists from various locations and time periods have forged solidarities across physical and ideational borders. The thinkers/organizers/activists we read trace the role of difference in navigating global solidarity and resistance; the potentials and limitations of human rights frameworks in fostering political transformation; capitalism, anti-capitalist mobilizations, "women's" work and the building of alternative economies; movement-building in the age of social media and financialization; LGBTQ politics; and the politics of borders and migration. Our discussions will explore the gray areas existing in between and beyond binaries such as feminist/anti-feminist; local/global; home/away; Global South/North; and domination/dependency. Throughout the semester, we will ask how processes of knowledge production take shape within various (mutually non-exclusive) intellectual and political movements.

Credit 3 units.

Typical periods offered: Fall

WGSS 5350 Queer and Feminist Geographies

There is a tendency to see space and place as backdrops, mere stages where human social interactions simply play out. Yet when we fail to interrogate the processes behind the social production of space, we run the risk of naturalizing space as heteronormative and obfuscating its inherent exclusions. This upper-level seminar seeks to challenge such assumptions by treating space and place as dynamic formations that actively influence our identities, behaviors, and politics. Using queer and feminist perspectives within the realm of geography, we will explore how spaces, places, and boundaries are shaped, experienced, and contested through diverse gender identities and sexual formations. Questions driving our inquiry include: How do queer and feminist geographies intersect to shape landscapes—both urban and rural in the United States and abroad? What role do geographic spaces play in the construction of LGBTQ identities across different social milieus? And in what ways can queer and feminist perspectives contribute to decolonial and environmental justice movements? In addition to queer and feminist spatial theories, topics will include sexuality and place-making, transnational queer migrations, queer ecologies and environmental justice, and the queering of the public and private divide at the heart of spatial taxonomies in the West. By mobilizing queer and feminist forms of

spatial analysis, this seminar will equip you with tools to identify the ways in which spaces, places, and boundaries can further social inequalities and the opportunity to theorize alternative geographies that promote inclusion and more just worlds.

Credit 3 units. A&S IQ: HUM, SC BU: HUM EN: H

WGSS 5700 Ancient Greek and Roman Gynecology

This course examines gynecological theory and practice in ancient Greece and Rome, from about the 5th century BCE to the 3rd century CE. The task is complicated by the nature of our evidence. Our surviving textual sources are authored exclusively by men, mainly physicians. They have a pronounced tendency to conceptualize the health and disease in terms of a single body, which was male by default. They distinguished female bodies from male primarily in reproductive aspects. How exactly did these physicians understand diseases of women and, as far as can be recovered, to what extent were their views represented among laypeople? What form did treatment take and what was the social status of practitioners, both that of our extant sources and female practitioners whose voices have largely been silenced by the textual tradition? We will approach the study of Greek and Roman gynecology, first from the perspective of Greco-Roman medical views, then from the point of view of contemporary Western biomedicine. The limited nature of our sources will allow students to read the majority of surviving material. These primary readings will be accompanied by current secondary scholarship that explores these fascinating and often frustrating questions about the female body in ancient medical thought. All primary materials will be available in English translation. There will be an option for students with a background in Greek or Latin to form a satellite reading group. The course does not assume familiarity with Greek and Roman medicine more broadly.

Credit 3 units. A&S IQ: HUM, LCD, SC Arch: HUM Art: HUM BU: HUM, IS EN: H

WGSS 5720 Race, Reproduction, and Justice

Reproduction is biological, economic, political, and social. Of course, individuals reproduce, but when, how, why, and with whom we do (or do not) is also a matter of public policy and social concern. Drawing on readings from sociology, law and other fields that engage continually with these key questions: Why is reproduction an important site through which to understand sociology? How do statuses such as race, class, gender, sexuality, and ability influence people's reproductive possibilities? How have communities supported or resisted efforts at reproductive control? Why is reproductive justice central to these answers? Students will review theoretical pieces, empirical research, media and more to explore the answers. This course primarily focuses on the US but will expose students to global reproductive concerns. Class sessions include lecture, in-class discussion and online discussion, media analysis and other activities. This upper-level seminar presumes an understanding of the basic concepts in sociology such as sociological imagination and social construction. Prerequisite: successful completion of an introductory-level Sociology course or consent of the instructor. Graduate students should enroll in this 500-level offering.

Credit 3 units. A&S IQ: SSC, SC EN: S

WGSS 5980 Master's Thesis

An independent research and writing project under the direction of a member of the faculty in the Department of Women, Gender, and Sexuality Studies. Open only to students admitted to the JD/MA dual degree program.

Credit 2 units.

Typical periods offered: Fall



WGSS 5990 Advanced Seminar: History of the Body

Do bodies have a history? Recent research suggests that they do. Historians have tapped a wide variety of sources - including vital statistics, paintings and photographs, hospital records, and sex manuals - to reconstruct changes in how humans have conceptualized and experienced their own bodies. We will pay particular attention to the intersection of European cultural history and history of medicine since 1500. This course fulfills the History major capstone requirement as an Advanced Seminar.

Credit 3 units. A&S IQ: HUM, LCD Arch: HUM Art: HUM BU: HUM EN: H

WGSS 5996 Women, Gender and Sexuality Studies Elective

Credit 0 units. EN: H

WGSS 6996 Women, Gender & Sexuality Studies Elective (GRAD)

Credit 0 units. EN: H

Women, Gender, and Sexuality Studies, Graduate Certificate

To earn a graduate certificate at Washington University, a student must be currently enrolled in an applicable Washington University PhD program; apply and be accepted to the graduate certificate program; complete all courses required by the academic unit offering the certificate; maintain satisfactory academic progress; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student. Graduate certificates are not standalone programs and are only available to current students in applicable Arts & Sciences doctoral programs. Thus, graduate certificates are conferred at the same time as the student's PhD.

Program Requirements

- **Total Units Required:** 12
- **Certificate Length:** Three or four semesters. Earning the certificate should not increase a student's expected time to degree.
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their coursework, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.
- **Grade Requirement:** The minimum grade for coursework to count toward the certificate is a B.

Graduate students interested in the graduate certificate in WGSS should first apply for admission to the Washington University department in which they wish to obtain an advanced degree. After being admitted, each student should notify their department advisor

and the WGSS program director of their plans to obtain the WGSS certificate. *Students must apply for the certificate by the end of their first year, unless granted an exception by the DGS.* Each student should submit an "Application for Admission to Certificate Program" form to the Office of Graduate Studies, Arts & Sciences, with a copy also given to the WGSS office. The earlier that the WGSS department knows who these students are, the earlier these students can be included in mailings about program activities, lectures, conferences, and other events. Certificate application forms are available from the Office of Graduate Studies, Arts & Sciences.

Required Courses

The graduate certificate in WGSS requires the completion of four courses, at least two of which must be drawn from 5000-level WGSS courses. The additional two required courses must be drawn from 5000-level WGSS courses or from gender-themed courses in other departments approved by the WGSS Director of Graduate Studies. *Only 6 credits (two courses) can count for both the student's PhD program and the WGSS certificate.* Students should first consult the WGSS Director of Graduate Studies for approval.

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 Email: wgss@wustl.edu
 Website: <http://wgss.artsci.wustl.edu>

Women, Gender, and Sexuality Studies, JD/MA

To earn a master's degree at Washington University, a student must complete all courses required by their department; maintain satisfactory academic progress; pass certain examinations; fulfill all academic and residence requirements; and apply for program completion (graduation) via Workday Student.

For the details of master's degree general requirements in Arts & Sciences, including an explanation of Satisfactory Academic Progress, students should review the Master's Degree Academic Information page (p. 53) of the Arts & Sciences *Bulletin*.

The Doctor of Laws/Master of Arts in Women, Gender, and Sexuality Studies (JD/MA in WGSS) is a dual program in which students, under close mentoring by advisors in both Law and WGSS, take a carefully selected set of courses at WashU Law and in Arts & Sciences that have been tailored to the student's interests. Course work in Arts & Sciences provides students with advanced training in issues of gender, sexuality, race/ethnicity, class, and more. Whether students come from a gender and sexuality studies background already or are looking to supplement their JD with a gender and sexuality studies perspective, this program is designed to prepare lawyers with a deep understanding of the cultural impacts of gender and sexuality in the workplace, in policy, and in law.

Students entering this four-year program spend their first year taking the required 1L courses at WashULaw. Applications for the JD/MA are accepted from students who are applying to the Law School and those who are in their first year at WashULaw. Students will only be admitted to the dual program after they have been accepted into WashULaw.

Note: The MA in WGSS is conferred only on students in this dual program. WGSS does not offer a standalone MA.

JD/MA Program Requirements

- **Total Units Required:** 32 (for MA)
- **Degree Length:** 4 years
 - **Note:** Students must be enrolled in 9 graduate credits each semester to retain full-time status. As students complete their course work, if enrolled in fewer than 9 graduate credits, they must enroll in a specific Arts & Sciences graduate course that will show 0 units but does count as full-time status. Students should connect with their department to ensure proper enrollment prior to Add/Drop.

Students in the program fulfill the usual JD requirements, including one ethics course, one upperclass writing course (seminar), 6 units of experiential credits in designated courses, and 67 units of law classroom credits. Because the upperclass JD curriculum may vary from year to year, students should choose their electives in consultation with their WashULaw advisors.

The MA requires 32 credit units, including at least 21 units from specific categories, with the remainder satisfied through elective courses in the student's area of interest. A 2-credit master's thesis is optional, in which case the student would complete 30 units of course work as well as the thesis. Electives may be drawn from 5000-level courses in WGSS or from specific courses in the upperclass JD curriculum. To count toward the 32 credits required for the MA in WGSS, courses *must* be taken for a grade, with the exception of Law School externships approved by the WGSS JD/MA program director and Supervised Instruction: Law, Gender & Justice.

Students in the dual JD/MA program may take Arts & Sciences courses during their second through fourth years. They must earn grades of B or higher in those courses in order to count them towards the JD/MA program. Students who do not complete the MA portion of the dual degree program are not eligible for the graduate certificate in WGSS.

For students pursuing the master's thesis option: Students who choose to write a thesis should determine a subfield of focus early in the program, preferably during the first year of study in Arts & Sciences. The following year, in collaboration with their advisors, students will develop a thesis project or a practicum with a substantial writing component.

Thesis Requirements/Details

Students who choose to write a thesis will determine a subfield of focus during the first year of study. During the second year, in collaboration with their advisors, students will develop a thesis project or a practicum with a substantial writing component. Students who complete the MA portion of the dual degree program are not eligible for the graduate certificate in WGSS. Students must earn grades of B or higher in graduate Arts & Sciences courses for those courses to count toward the MA in WGSS.

Required Courses

Note that any particular course can count only toward one required category.

Advanced Theory and Research (9 required units):

Code	Title	Units
WGSS 5142	Feminist and Queer Research Methodologies	3
WGSS 5150	Feminist Literary and Cultural Theory	3
WGSS 5200	Feminist Political Theory	3
WGSS 5000	Advanced Feminist Theory	3

Advanced Seminars in Race/Ethnicity (3 required units):

Code	Title	Units
WGSS 5165	From Mammy to the Welfare Queen: African American Women Theorize Identity	3
AFAS 5645	Look Here, Karen: The Politics of Black Digital Resistance to White Femininity	3
WGSS 5014	Queer of Color Critique	3
AFAS 5402	Intersectionality	3

Advanced Seminars in Gender/Sexuality (3 required units):

Code	Title	Units
WGSS 5085	Everyday Unruliness: Feminist and Queer Resistance	3
WGSS 5150	Feminist Literary and Cultural Theory	3
WGSS 5006	Advanced Topics in Trans Theories: Femme	3



Advanced Seminars in Transnational Feminist and Gender Analysis (6 required units):

Code	Title	Units
WGSS 5245	Transnational Feminisms	3
WGSS 5200	Feminist Political Theory	3

Electives in the Student's Area(s) of Interest (9-12 units):

These electives can be chosen from any 5000-level WGSS courses and/or from the following WashU Law courses that *must* be taken for a grade (with the exception of LAW 5758 Supervised Instruction: Law, Gender and Justice or an externship approved by the WGSS advisor).

Code	Title	Units
LAW 5170	Family Law	3
LAW 5614	Family Law: Parentage, Adoption & Assisted Reproduction	3
LAW 5663	Employment Discrimination	3
LAW 5736	Regulating Sex: Historical and Cultural Encounters	2
LAW 5750	Sexuality and the Law: Theory and Practice	3
LAW 5758	Supervised Instruction: Law, Gender and Justice	3
LAW 5764	The Law of the Fourteenth Amendment	3
LAW 7025	Feminist Theories, Feminist Judgments Seminar	3
LAW 7026	Implicit Biases in Society Seminar	3
LAW 7517	Semester in Practice Externship	8-12

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Degrees Offered

A

- American Culture Studies, Graduate Certificate (p. 68)
- Anthropology, PhD, Archaeology Concentration (p. 79)
- Anthropology, PhD, Biological Anthropology Concentration (p. 85)
- Anthropology, PhD, Sociocultural Anthropology Concentration (p. 92)
- Art History and Archaeology, MA (p. 110)

- Art History and Archaeology, PhD (p. 111)

B

- Biology, MA (Part-Time) (p. 124)

C

- Chemistry, PhD (p. 138)
- Classics, Accelerated BA/MA (p. 153)
- Classics, MA (p. 154)
- Classics, PhD (p. 155)
- Comparative Literature, PhD (p. 167)

D

- Dance, MFA (p. 365)
- Data Science in the Humanities, Graduate Certificate (p. 173)

E

- Early Modern Studies, Graduate Certificate (p. 174)
- Earth, Environmental, and Planetary Sciences, PhD (p. 195)
- East Asian and Comparative Literatures, PhD (p. 207)
- East Asian Languages and Cultures, Accelerated BA/MA (p. 212)
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Admissions

Eligibility

Washington University gives full consideration to all applicants for admission and financial support without regard to race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information.

Evidence considered by each admissions committee includes not only the quality of previous course study but also its relevance to the applicant's prospective program. Research experience in the discipline is viewed favorably.

The Office of Graduate Studies, Arts & Sciences, is interested in recruiting, enrolling, retaining, and graduating students from diverse backgrounds and disciplines. If eligible, applications for admission to any of the Arts & Sciences degree programs are encouraged and welcomed. To the greatest extent possible, students with disabilities are integrated into the student population as equal members.

To be considered for admission into an Arts & Sciences graduate degree program, applicants must hold a bachelor's degree from an accredited institution prior to starting the graduate program.

Students may be admitted to study for a PhD degree directly from baccalaureate study or after undertaking other graduate or professional education, whether at Washington University or at another accredited institution.

Application Process

The Office of Graduate Studies, Arts & Sciences, sets one application deadline for all doctoral programs each year. The deadline generally falls during the first week of December. Master's degree programs set their own application deadlines, which generally fall in either mid-December or mid-January. Applicants should use the deadline date that is displayed on their application page. It is generally advantageous to the applicant to complete the application and have all application materials submitted well in advance of the deadline.

Admissions and financial aid awards are for a specific academic year. Admitted students can request a deferral of admission for up to one year, but such special requests require approval of the admitting program and of the Office of Graduate Studies, Arts & Sciences (if you are an international applicant, additional approval is needed from the Office of International Students & Scholars). Applicants to whom admission is not offered may reapply after gaining additional evidence of qualification.

Degree programs in Arts & Sciences rarely admit applicants for the spring semester. Students interested in beginning graduate study in the spring should consult their prospective program's faculty and staff prior to completing an application.

The application is available online through the website of the Office of Graduate Studies, Arts & Sciences.

Applications are ready for final consideration after the following items have been submitted:

1. The application
2. Unofficial transcripts of all undergraduate and graduate courses taken by the applicant. The application review process will be greatly expedited by uploading unofficial copies of transcripts.
Note: An official transcript stating the baccalaureate degree earned and the date it was conferred will be required before a student can enroll.
3. Official Test of English as a Foreign Language (if your citizenship status is not U.S. citizen)
4. The appropriate letters of recommendation outlined by the program. These recommendations should be completed by persons closely acquainted with the applicant.
5. Application fee or fee waiver
6. Any additional material required by the degree program

Admissions recommendations are made by the faculty of each degree-granting program. Disciplines naturally require different preparation and various aptitudes in their applicants, so the admissions process is necessarily decentralized. All final/official admissions decisions will be provided through the admissions system.

International Applicants

Applicants to any graduate program within Arts & Sciences who are not U.S. citizens must provide verification that they have sufficient English language proficiency to succeed in the academic program. Options and procedures for demonstrating English Language Proficiency are provided through the Vice Provost of Graduate Education and the Office of International Students & Scholars.

Categories of Admission

Most students are admitted to a graduate program in Arts & Sciences as full-time candidates for a specific degree program. However, Arts & Sciences does offer a limited number of part-time master's programs. There are also two ways to take graduate courses without admission to candidacy for a degree: as a Student Not Candidate for a Degree (SNCD) or as an Unclassified Graduate Student.

Student Not Candidate for a Degree (SNCD)

SNCD admission may be granted to qualified students who hold a bachelor's degree or its equivalent, who wish to enroll in graduate courses on a non-degree basis, and who receive approval from the degree program of interest. Examples include international exchange students who are studying at the university for a limited duration, students in good standing at other graduate schools, and students who wish to test their capabilities in a graduate setting. SNCD status is also open to Washington University employees. Students in this category are assigned faculty advisors and are accorded the same privileges as degree candidates, such as select ID card permissions and access to the library, study spaces, and labs. Applicants for SNCD should apply through the application system, typically during the application cycle for Fall semester entry. Continuation as an SNCD is subject to the same academic and other standards that apply to degree candidates. In very special cases, SNCDs may be eligible for financial aid. However, Arts & Sciences does not provide tuition remission for individuals in SNCD status. If you are a WashU employee, please visit the Employee Tuition Assistance page of the WashU Human Resources website for more information.

Courses taken in SNCD status are not eligible to count toward a Washington University Arts & Sciences graduate degree with the exception of courses taken by students pursuing a joint postbaccalaureate program.

Unclassified Graduate Student

A student who wishes to enroll in select graduate-level courses without admission to an Arts & Sciences program is generally permitted to do so as an Unclassified Graduate Student. Examples include students who are interested in taking a limited number of graduate courses in Arts & Sciences, possibly before applying to a graduate program, and postdoctoral researchers who are fulfilling lab requirements. Unclassified status is also open to Washington University employees who are usually pursuing a course

for professional development purposes. Application for admission is not required for such registration, and permission to register as an Unclassified Graduate Student does not constitute admission. However, interested individuals must complete a registration form through the application system. Students may not take more than 6 units of graduate credit in Unclassified status. Students may apply up to 6 units of graduate credit earned while in Unclassified status to a Washington University Arts & Sciences graduate degree. These credits must be approved by the department through which the student is seeking a degree. However, Arts & Sciences does not provide tuition remission for Unclassified status. If you are a WashU employee, please visit the Employee Tuition Assistance page of the WashU Human Resources website for more information.

Unclassified students are not eligible for student services, including financial aid. Students in this category are not assigned faculty advisors and do not have the same privileges as degree candidates.

Acceptance of Admission and Award Offers

Washington University, along with most other graduate schools in the United States, subscribes to the following resolution of the Council of Graduate Schools:

Acceptance of an offer of financial support (such as a graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor. In that context, the conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15 and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organizations subscribing to the above Resolution that a copy of this Resolution or a link to the URL should accompany every scholarship, fellowship, traineeship, and assistantship offer.

Students to whom admission and financial awards are offered during January through March are requested to give notice through the application system of the acceptance or rejection of their offers no later than April 15. Students to whom offers are made after April 1 are asked to reply within two weeks of receipt of the notice. Offers can be withdrawn if the deadline passes without any response from the

student. Requests to extend deadlines or to reinstate withdrawn offers should be addressed to the degree program, which must endorse them before forwarding them to the Office of Graduate Studies, Arts & Sciences, for final approval.

Policies

Graduate students are governed by policies established by the university; by the Office of Graduate Studies, Arts & Sciences; and by the student's department, division, and/or program. Therefore, the policies identified here and elsewhere in this *Bulletin* are not to be considered a complete list. However, every attempt has been made to identify the location of those policies that affect most or all students in the Office of Graduate Studies, Arts & Sciences.

In this *Bulletin*, the University Policies (p. 19) page covers many of the policies that apply to both graduate and undergraduate students. In addition, it refers to the university website's University Policies page. Graduate students should follow that page's links to find relevant policies.

The website of the Office of Graduate Studies, Arts & Sciences, has a Policies & Procedures page that includes links to the full text of several of its policies. Please note that Arts & Sciences graduate students must follow Arts & Sciences graduate-level policies. Undergraduate versions of the same policies do not apply to graduate students.

Individual departments and programs maintain their own policies that may be equal to or stricter than university- or school-level policies. The minimum cumulative grade point average (GPA) requirements needed to maintain eligibility for satisfactory academic progress are dictated by the specific program of study. In each case, per the requirements of 34 C.F.R. 668.34(a)(4)(ii), the federal student aid program requires a minimum of a C (2.0) cumulative GPA to maintain eligibility for aid, but an individual degree or certificate program may have a higher minimum cumulative GPA for federal Satisfactory Academic Progress. The minimum cumulative GPA for good standing in graduate programs in Arts & Sciences is 3.0.

Postdoctoral Training

Postdoctoral appointments at WashU are full-time academic positions focused on mentored research and professional development under the guidance of faculty mentors. They are supported through research grants, individual fellowships, or institutional training programs. Their primary purpose is to help highly trained individuals acquire the professional skills needed for their chosen career path.

Because of this focus, postdoctoral appointments are inherently time-limited; they are capped at five years including any experience at other institutions following the doctoral degree. All postdoctoral appointees are eligible for university-sponsored benefits, and the postdoctoral experience is regulated by postdoc-specific policies and institutional normative.

WashU is proud to be an institutional member of the National Postdoctoral Association, which reflects our commitment to excellence in postdoctoral education.

Postdoc Categories

At WashU, there are two categories of postdocs:

1. *Postdoctoral Research Scholars* receive external funding in the form of a stipend and are considered non-employees.
2. *Postdoctoral Research Associates* receive a salary from the university and are considered employees.

Office of Postdoctoral Affairs

The Office of Postdoctoral Affairs (OPA), under the Office of the Vice Chancellor for Research, serves postdoctoral research associates and scholars across both the Danforth and Medical campuses. The OPA provides comprehensive resources to help postdocs achieve their career and professional development goals, advocates for postdoctoral issues, and offers guidance on recruitment and postdoctoral life. It also fosters a vibrant and inclusive postdoctoral community through networking, social events, and peer support.

The OPA postdoc curriculum includes signature programs in the following areas:

- *A career development series* to equip postdocs with essential skills for navigating diverse career pathways and achieving success in both academic and industry settings;
- *Leadership and communication training* to advance leadership capabilities while strengthening grant writing, publishing, and science communication skills;
- *Wellness and community engagement* that promotes holistic development, well-being, and meaningful integration into the WashU community;

- *Fellowships and awards* that recognize excellence and provide competitive opportunities for research and professional growth; and
- *An annual postdoc symposium and research seminars* that showcase innovative research and foster interdisciplinary collaboration across campuses.

Postdoc Organizations

The OPA supports recognized postdoc-led groups, including three major organizations:

1. WashU Postdoc Society (WUPS)
2. WashU Black Postdoctoral Association
3. Postdoc Peer Mentoring Program

Additional Information

For more information about programs, resources, and upcoming events, visit the OPA website.

Cross-School Interdisciplinary PhD Programs

There are certain graduate programs that span more than one school at Washington University. Please visit the following pages to learn more about these programs:

- Division of Biology & Biomedical Sciences (p. 514)
- Division of Computational & Data Sciences (p. 527)
- Institute of Materials Science & Engineering (p. 530)

Division of Biology & Biomedical Sciences

The Roy and Diana Vagelos Division of Biology & Biomedical Sciences at Washington University offers exceptional doctoral education at one of the nation's preeminent biomedical research centers. The Division includes 11 doctoral programs:

- Biochemistry, Biophysics, & Structural Biology
- Biomedical Informatics & Data Science
- Cancer Biology
- Computational & Systems Biology
- Developmental, Regenerative, & Stem Cell Biology
- Immunology
- Molecular Cell Biology
- Molecular Genetics & Genomics
- Molecular Microbiology & Microbial Pathogenesis
- Neurosciences
- Plant & Microbial Biosciences

A collaborative, interdisciplinary approach to research and education is a hallmark of Washington University and the Division. As a university-wide consortium, the Division transcends departmental lines and removes traditional boundaries of scientific fields. Faculty and graduate students regularly cross disciplines, devising novel questions and approaches that might otherwise go unexplored. The Division consists of over 700 PhD and MD/PhD students, with more than 700 faculty members from 39 departments.

Washington University in St. Louis provides unique opportunities for translating basic science into practical application. In addition, the Division's associations with internationally prominent local institutions provide exciting opportunities. Students in the biomedical sciences enrich their work with the clinical perspective of our outstanding

medical school; students also benefit from our close affiliation with the internationally renowned Missouri Botanical Garden, as well as the Saint Louis Zoo, the Tyson Research Center, the National Great Rivers Research & Education Center, and the Donald Danforth Plant Science Center.

To help prepare graduates for careers in academia, government, industry or another field of their choice, educational opportunities are offered for skill development and career exploration. The Division offers a career-planning curriculum where students can pursue noncredit elective credentials to build transferable professional skills in four areas that apply to a wide variety of scientific careers: leadership, entrepreneurship, science communication, and teaching. Through the Next Generation of Science Scholars, students are provided networking and community-building events, professional development seminars, and scientific community outreach opportunities. Professionals from a variety of fields (e.g., biotech startups, patent law) provide presentations and Q&A sessions to students throughout the year. In addition, the DBBS holds partnerships with groups such as the Center for Teaching and Learning, the Center for Career Engagement, and student organizations such as ProSPER, InPrint, the BALSAs Group, and the Young Scientist Program. Students have multiple opportunities to develop experiences relevant to their future career goals.

DBBS students can reference the DBBS Student Handbook for student guidelines across all Division programs.

Email: DBBS-Info@email.wustl.edu

Website: <http://dbbs.wustl.edu>

Faculty

Associate Dean for Graduate Education

Steven Mennerick

John P. Feighner Professor of Neuropsychopharmacology, Professor of Psychiatry, Associate Dean for Biology and Biomedical Sciences, Professor of Neuroscience
PhD, Washington University in St. Louis

Associate Directors

Eric Herzog

Professor of Biology, Professor of Neuroscience, Viktor Hamburger Distinguished Professor
PhD, Syracuse University

Heather True

Professor of Cell Biology and Physiology, David English Smith Professorship in Medicine
PhD, University of Illinois-Urbana-Champaign

Faculty Program Directors: Biochemistry, Biophysics, & Structural Biology

Thomas Brett

Associate Professor of Medicine, Associate Professor of Biochemistry and Molecular Biophysics, Associate Professor of Cell Biology and Physiology

PhD, University of Nebraska – Lincoln

Eric Galburt

Associate Professor of Biochemistry and Molecular Biophysics
PhD, University of Washington

Faculty Program Directors: Biomedical Informatics & Data Science

Philip Payne

Professor of Medicine, Director, Institute for Informatics, Professor, Professor of Computer Science and Engineering, Associate Dean for Health Information and Data Science for the School of Medicine, Chief Scientist for the School of Medicine, Janet and Bernard Becker Professor of Medicine

PhD, Columbia University

Po-Yin Yen

Associate Professor of Medicine, Division of General Medicine & Geriatrics, Associate Professor, Goldfarb School of Nursing, Barnes Jewish College

PhD, Columbia University

Faculty Program Directors: Cancer Biology

Grant Challen

Professor, Division of Oncology, Department of Medicine
PhD, University of Queensland, Brisbane, Australia

Jason Weber

Professor, Departments of Medicine, Cell Biology & Physiology, and Biology

PhD, Saint Louis University

Faculty Program Directors: Computational & Systems Biology

Gautam Dantas

Professor of Pathology and Immunology, Co-Division Chief - Division of Laboratory and Genomic Medicine, Professor of Biomedical Engineering, Professor of Molecular Microbiology, Professor of Pediatrics, Conan Professorship in Laboratory and Genomic Medicine
PhD, University of Washington – Seattle

Nancy Saccone

Associate Professor of Genetics
PhD, Brown University

Faculty Program Directors: Developmental, Regenerative, & Stem Cell Biology

Mayssa Mokalled

Associate Professor of Developmental Biology
PhD, UT Southwestern Medical Center at Dallas

Andrew Yoo

Phil and Sima Needleman Distinguished Professor of Developmental Biology

PhD, Columbia University

Faculty Program Director: Immunology

Eynav Klechevsky

Associate Professor of Pathology and Immunology
PhD, Israel Institute of Technology, Haifa, Israel and The Baylor Institute for Immunology Research

Faculty Program Directors: Molecular Cell Biology

Ben Major

Alan A. and Edith L. Wolff Professorship in Cell Biology and Physiology, Professor of Cell Biology and Physiology, Professor of Otolaryngology
PhD, University of Utah

Maria Remedi

Professor of Medicine and Cell Biology & Physiology
PhD, National University of Cordoba, Argentina

Faculty Program Directors: Molecular Genetics & Genomics

John Edwards

Associate Professor of Medicine
PhD, Columbia University

Jim Skeath

Professor of Genetics, Assistant Dean Academic Pathway Programs
PhD, University of Wisconsin – Madison

Faculty Program Directors: Molecular Microbiology & Microbial Pathogenesis

Megan Baldrige

Associate Professor of Medicine, Associate Professor of Molecular
Microbiology
MD/PhD, Baylor College of Medicine

Andrew Kau

Associate Professor, Division of Allergy and Immunology, Associate
Division Chief - Research
MD/PhD, Washington University in St. Louis

Faculty Program Directors: Neurosciences

Martha Bagnall

Associate Professor of Neuroscience
PhD, University of California – San Diego

Alexxai Kravitz

Associate Professor of Psychiatry, Interim Division Director for
Basic Neuroscience, Associate Professor of Neuroscience, Associate
Professor of Anesthesiology
PhD, University of Pennsylvania

Faculty Program Directors: Plant & Microbial Biosciences

Barbara Kunkel

Professor of Biology, Associate Chair of Undergraduate Education
PhD, Harvard University

Xuehua Zhong

Professor of Biology, Dean's Distinguish Professorial Scholar
PhD, The Ohio State University

DBBS mentors and educators are key to our training mission. Those who serve as primary mentors are DBBS Program Members, and others who participate in the educational mission are General Members.

Visit the DBBS website to learn about DBBS Faculty Membership or to search DBBS Faculty by last name, program, or expertise.

Degree Requirements

- Biochemistry, Biophysics, & Structural Biology, PhD
- Biomedical Informatics & Data Science, PhD
- Cancer Biology, PhD
- Computational & Systems Biology, PhD
- Developmental, Regenerative, & Stem Cell Biology, PhD
- Immunology, PhD
- Molecular Cell Biology, PhD
- Molecular Genetics & Genomics, PhD
- Molecular Microbiology & Microbial Pathogenesis, PhD
- Neurosciences, PhD
- Plant & Microbial Biosciences, PhD

Courses

For questions about course listings, please email
dbbscurriculum@wustl.edu.

BBS 5011 Ethics & Research Science

This course prepares DBBS graduate students to analyze and address ethical and professional issues across the range of their professional roles and responsibilities. The primary goals are for students to recognize complex situational dynamics and ethical issues and to develop professional and ethical problem-solving skills. The course examines ethical challenges related to research design and data collection, management, ownership, security, sharing, analysis, interpretation, and reporting while providing practical guidance on these issues. The course also examines the fundamentals of the broader research environment, including principles of ethics in genetics and human and animal subjects research, regulatory issues in biological and biomedical research, publication and authorship, and collaboration in science.

Credit 1 unit.

Typical periods offered: Spring Half B, Spring Half A, Spring, Spring Intersession, Summer

BBS 5014 Biotech Industry Innovators

Late one Friday afternoon in April 1976, the late venture capitalist Robert Swanson met with biochemist Herb Boyer, PhD, at his UCSF lab. Swanson had requested 10 minutes of Boyer's time; when the meeting ended, three hours later, the foundations had been laid for the formation of Genentech, the first biotechnology company, and the beginnings of the biotechnology industry. This course, The Basics of Bio-Entrepreneurship, investigates issues and choices that inventor/scientists encounter when considering the applications and commercialization of early stage scientific discoveries. This course is intended for anyone interested in working in the medical device, life-, bio-, or pharma-sciences industries as a founder, scientist, entrepreneur, manager, consultant, or investor. It focuses on the decision processes and issues that researchers and their business partners face when considering how a discovery might best be moved from academia to successful commercialization.

Credit 3 units.

Typical periods offered: Fall, Spring

BBS 5053 Immunobiology I

Immunobiology I is taught by the faculty members of the Immunology Program. This course covers in depth modern immunology and are based on Janeway's Immunobiology 10th Edition textbook. The topics include: basic concepts in immunology, innate immunity: the first lines of defense, the induce responses of innate immunity, antigen recognition by B-cell and T-cell receptors, the generation of lymphocyte antigen receptors, antigen presentation to T lymphocytes and signaling through immune system receptors.

Credit 4 units.

Typical periods offered: Fall

BBS 5054 Immunobiology II

Immunobiology II is taught by the faculty members of the Immunology Program. This course covers in depth modern immunology and are based on Janeway's Immunobiology 10th Edition textbook. The topics include: the development and survival of lymphocytes, T cell-mediated immunity, the humoral immune response, dynamics of adaptive immunity, the mucosal immune system, failures of host defense mechanisms, allergy and allergic diseases, autoimmunity and transplantation, and manipulation of the immune response.

Credit 4 units.

Typical periods offered: Spring

BBS 5068 Fundamentals of Molecular Cell Biology

This is a core course for incoming graduate students in Cell and Molecular Biology programs to learn about research and experimental strategies used to dissect molecular mechanisms that underlie cell structure and function, including techniques of protein biochemistry. Enrolling students should have backgrounds in cell biology and biochemistry. The format is two lectures and one small group discussion section per week. Discussion section focuses on original research articles.

Credit 4 units.

Typical periods offered: Fall

BBS 5075 Introduction to Coding and Statistical Thinking for Genetics and Genomics

This course is designed for first-year DBBS students who have had little to no prior experience in programming or statistics. The course will cover common statistical practices and concepts in the life sciences, such as error bars, summary statistics, probability and distributions,

and hypothesis testing. The class will also teach students basic programming skills for statistical computation, enabling them to retrieve and analyze small and large data sets from online databases and other sources.

Credit 2 units.

Typical periods offered: Fall

BBS 5084 Single Molecule Biophysics Journal Club

Molecular motors in the cell harness chemical energy to generate mechanical work in a host of processes including cell motility, DNA replication and repair, cell division, transcriptional regulation, and intracellular transport. The purpose of this course is to discuss recent advances in the field of molecular motors. Special emphasis will be placed on understanding and critically evaluating single molecule studies. The course will consist of both journal club presentations and small group discussions.

Credit 1 unit.

Typical periods offered: Spring

BBS 5098 Graduate Research Fundamentals

This course introduces first-year Ph.D. students to the foundational skills, knowledge, and habits of mind required of successful independent biological scientists: 1) Social dynamics in the scientific research enterprise 2) Epistemology and ethics of bio research methods 3) Development and communication of research questions and results 4) Interdisciplinary scientific thinking. Class sessions and homework introduce these topics; major assignments prompt student to connect them with the broader scope of graduate training in lab rotations, course work, and interdisciplinary scientific seminars. The interactive, student-driven class structure facilitates autodidactic development while integrating small group activities and peer mentoring from advanced DBBS students.

Credit 0.5 units.

Typical periods offered: Fall

BBS 5123 Experimental Hematopoiesis Journal Club

Journal club in which papers that describe significant advances in the field of experimental hematopoiesis are discussed. Students are expected to present one paper per semester and attend the weekly (1 hour) session.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5137 TriMED: Membrane Excitability and Disease

TriMED consists of seminars, work-in-progress talks and journal club presentations. It meets Monday lunchtime (1-2pm, with lunch provided) from Jan - end April and from Sept - end November (1 credit each semester). Any student signed up for credit has to attend regularly and make one half hour presentation (either of their own research, or of a paper). The attendees are a mix of students, post-docs and faculty, but the goal is for trainee experience. The course is designed to fulfil interest in membrane proteins or signaling, ion channels, electrophysiology, neurobiology or excitability more broadly.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5138 Journal Club for the Molecular Mechanism of Aging

Why do we age? What causes aging? How is our life span determined? This journal club will address such fundamental, but challenging questions of aging and longevity. Recent studies on aging and longevity are now unveiling regulatory mechanisms of the complex biological phenomenon. We'll cover the latest progress in this exciting field

and stimulate discussions on a variety of topics including aging-related diseases. One hour of paper presentation or research talk and discussion per every two weeks. Registered students are expected to have at least one presentation for 1 unit credit.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5146 Principles and Applications of Biological Imaging

Principles and Applications of Biological Imaging will introduce the interdisciplinary nature of the imaging sciences and conduct a comprehensive survey of the array of interrelated topics that define biological imaging. The course will cover the basics of the optical, magnetic resonance, CT, SPECT and PET imaging modalities, and microscopy, while focusing on applications of imaging to different disease states, such as oncology, neurology, cardiology and pulmonary diseases.

Credit 3 units.

Typical periods offered: Fall

BBS 5147 Contrast Agents for Biological Imaging

Contrast Agents in Biological Imaging will build the chemistry foundations for the design and use of contrast agents in imaging applications such as nuclear medicine, magnetic resonance imaging (MRI) and optical imaging. The course will include lectures on the design of radiopharmaceuticals for gamma scintigraphy and positron emission tomography, MRI contrast agents and agents for optical imaging, including bioluminescence and fluorescence microscopy. One year of general chemistry, one semester of organic chemistry required.

Credit 3 units.

Typical periods offered: Spring

BBS 5148 Metabolism Journal Club

The purpose of the Metabolism Journal Club is to introduce the graduate students to advanced topics spanning the biochemistry, cell biology and genetics of cellular and whole body metabolism. Under the guidance of the course directors, students will select recent topical articles for discussion in the weekly journal club. Students will be expected to provide a succinct introduction to the topic and lead discussion of the data presented in the journal article. Students will be evaluated on the basis of their presentation and their participation in the seminar throughout the semester.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5152 Rad Journal Club (Regeneration, Aging, and Development)

Focuses on developing a dialog around current topics in developmental and regenerative biology at the molecular, cellular and systems levels.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5191 Pathobiology of Human Disease States

Three human disease states will be discussed in detail. Topics will include background clinical and epidemiological information, followed by a detailed examination of the molecular and cellular events that underlie the disease state. Examples of pertinent topics include Alzheimer's disease, AIDS, leukemia, cystic fibrosis, sickle cell anemia, diabetes, etc.

Credit 2 units.

Typical periods offered: Fall

BBS 5192 Cancer Biology Journal Club

This journal club covers current papers in molecular oncology, cancer genetics and contemporary molecular biology. Presentations will be given by students, post-docs and faculty, then discussed.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5196 Special Emphasis Pathway in Cancer Biology

This course is designed to present pre- and postdoctoral trainees with an organized educational format to explore major contemporary topics in cancer biology. The elective will provide an integrated view of cancer research including basic science, translational science, and clinical investigation. Approximately 60 minutes will be devoted to a didactic presentation by a faculty member with interaction by the participants. The remaining 30 minutes will be used to discuss a pivotal research paper from this field, preselected by the faculty member. Outside reading (30-60 min/week) will be required.

Credit 2 units.

Typical periods offered: Spring

BBS 5201 Membrane Protein Biophysics Journal Club

Cells are encapsulated by lipid bilayers providing a physical barrier for the passage of charged molecules and ions in and out of the cell. The proteins that reside within this layer of oil are called membrane proteins, and they act as the molecular gatekeepers, controlling the passage of ions, nutrients, waste products and signaling elements, across cell membranes. This journal club focuses on examining key literature in the field that investigates how membrane proteins fold, adopt certain structures, and how they function inside of the strange environment of the lipid membrane. The papers will be selected from biophysical studies that combine new and notable research with key historical work, for a broad perspective of the science being conducted in this complex and emerging field. Special emphasis will be placed on emerging topics, such as regulation of protein function by lipid composition, membrane protein synthesis and folding, cutting-edge developments in membrane biophysics. The course will consist of both journal club presentations, as well as small group discussions in the form of chalk-talks.

Credit 1 unit.

Typical periods offered: Spring

BBS 5217 Special Topics in Microbial Pathogenesis

Primarily for graduate and MSTP students, this course involves oral presentation and discussion of current research articles on pathogenic microorganisms (bacteria, viruses, parasites, and fungi). Discussion will include design of specific aims for research proposals. Emphasis will be on literature that addresses the cellular and molecular basis of host-pathogen interactions. Students are expected to prepare all articles covered and to participate actively in each discussion. Class meets twice per week for 1.5 hours each.

Credit 2 units.

Typical periods offered: Spring

BBS 5224 Molecular, Cell and Organ Systems

This course will introduce Ph.D. and MSTP students to fundamental problems in cell and molecular biology at the systems level. The course is divided into 5 themes: 1) microbial systems; 2) organ development and repair; 3) cardiovascular system and disease; 4) tumor & host systems; and 5) metabolic systems and disease. Topics within each theme highlight current research concepts, questions, approaches and findings at the molecular, cellular and physiological levels. Students will write an original research grant proposal on a topic of their choosing in one of the 5 themes. Students will critique proposals anonymously in an NIH-like study section.

Credit 3 units.

Typical periods offered: Spring

BBS 5235 Genetics Journal Club

This journal club will be focused on the Genetics department seminar series. Students will present one or a few recent papers by the seminar speaker scheduled for that week. Students will provide a brief written evaluation (on a form that will be provided) of their peers' presentations, and the faculty advisors will meet with each student after the presentation to provide feedback.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5255 Experimental Skeletal Biology Journal Club

The journal club, which meets weekly, focuses on cellular and molecular biology of the skeleton. Emphasis is placed on gaining insights into normal skeletal homeostasis as well as systemic disorders of bone. Papers presented for review are selected from the most competitive journals. Participants are encouraged to think outside of the box and discuss novel molecular discoveries that may impact bone cell function.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5272 Advanced Topics in Immunology

This course uses a journal club format to discuss contemporary issues in the cell and molecular biology of the immune system. Discussions focus on the use of current approaches to analyze the cellular and molecular basis of immunity. Topics include mechanisms of antigenic specificity, diversity, cell communication, differentiation, activation, and effector activity.

Credit 2 units.

Typical periods offered: Fall

BBS 5282 Chromatin Structure and Gene Expression

This special topics course will use *Epigenetics* ed. by Allis, Jenuwein, Reinberg, and Caparros (2007, Cold Spring Harbor Laboratory Press) as the organizing text. Each week a faculty member will provide a background lecture on an important topic or model system, and a student will present and lead discussion of a paper from the current scientific literature related to the previous week's background lecture. Topics to be considered will include background on chromatin structure, histone modifications and histone variants; epigenetic regulation in yeast, other fungi, ciliates, flies, mammals and plants; dosage compensation in different systems; DNA methylation and imprinting in mammals; stem cells, nuclear transplantation and reprogramming; and the epigenetics of cancer and other human diseases (some variation in topics in different years). Students enrolled in the course will be required to present one paper and to come prepared to each session, with a question for discussion.

Credit 2 units.

Typical periods offered: Spring

BBS 5284 Current Research in Chromatin, Epigenetics and Nuclear Organization

This journal club considers papers from the current literature on chromatin structure and function, with an emphasis on regulation of transcription, epigenetics and genomics. Presentations are given by students, postdocs and faculty, with discussion by all. Students enrolled for credit are expected to attend regularly, and to present a minimum of one paper during the term, with consultation and critique from the faculty.

Credit 1 unit.

Typical periods offered: Spring

BBS 5285 Current Topics in Human and Mammalian Genetics

This course aims to provide both biologists and those with mathematical backgrounds with a basis in mammalian genetics. The course will include the following modules: Nucleic acid biochemistry; Gene and chromosome organization; Introduction to Human Genetics; Mutations and DNA repair; Cancer Genetics; Genomic methodologies; Biochemical genetics; Murine Genetics; Epigenetics; Neurodegenerative diseases; Mitochondrial disorders; Pharmacogenetics; Introduction to human population genetics; Applications of modern human genetics; Introduction to web-based informatics tools for molecular genetics. One of the required courses in the Quantitative Human Statistical Genetics graduate program.

Credit 3 units.

Typical periods offered: Fall

BBS 5288 Special Topics in Molecular Genetics

A special topics course with lectures and discussion on the molecular basis of cancer including cell cycle regulation, tumor suppressor genes, tumor invasion, angiogenesis, immune evasion, resistance to apoptosis, signaling, imaging, gene expression, chromosomal translocations, and viral oncology.

Credit 2 units.

Typical periods offered: Spring

BBS 5303 Protein NMR Journal Club

This journal club covers the recent literature on protein NMR with a focus on using NMR to study protein function, NMR dynamics, and novel methods that expand the range of systems accessible to solution NMR studies. Students, postdocs and faculty discuss a recent paper and present background information on the relevant technical aspects of NMR. Students receive 1 credit for participation and presenting one paper.

Credit 1 unit.

Typical periods offered: Fall

BBS 5311 Dynamics in Mesoscopic Molecular Systems

This course will provide a background in the theory of the dynamics of mesoscopic systems and introduction to methods for measuring the dynamics of these systems. It will include measurement methods, some of which are in common use and others that have only recently been introduced. This course would be useful for biophysics students and others that are interested in molecular processes and mechanisms in small systems such as cells.

Credit 3 units.

Typical periods offered: Spring

BBS 5312 Macromolecular Interactions

This course will cover equilibria, kinetics and mechanisms of macromolecular interactions from a quantitative perspective. Thermodynamics, multiple binding equilibria (binding polynomials), linkage phenomena, cooperativity, allostery, macromolecular assembly, analysis of binding isotherms, enzyme catalysis and mechanism, steady-state and pre-steady-state kinetics, kinetic simulation, and isotope effects.

Credit 3 units.

Typical periods offered: Spring

BBS 5318 DNA Repair

This course is an advanced graduate course that explores all aspects of DNA damage and the cellular responses to DNA damage. It is designed for graduate students who have a working knowledge of chemistry, molecular biology and cellular biology, and for interested postdocs and researchers. Specific topics that will be covered are: The chemical basis

of DNA damage, specific DNA repair mechanisms, cell cycle responses to damage, translesion DNA replication and mutagenesis, and human diseases related to defects in DNA damage response. The course consists of a lecture module, open to all, and a discussion module for registered students. In addition, several invited speakers in the field of DNA repair will give seminars and meet with registered students for discussion. Students will present and discuss research papers. Grades will be given based on student presentation and participation. Prerequisite; Permission of instructor.

Credit 2 units.

Typical periods offered: Spring

BBS 5319 Molecular Foundations of Medicine

This course will cover fundamental aspects of biochemistry and cell biology from a medical perspective. The course begins with a treatment of protein structure and the function of proteins in the cytoskeleton and cell motility. The principles of enzyme kinetics and regulation are then discussed and basic pathways for the synthesis and metabolism of carbohydrates and lipids are introduced. This leads in to a discussion of membrane structure and the function cellular organelles in biological processes including energy production, protein degradation and protein trafficking.

Credit 3 units.

Typical periods offered: Fall

BBS 5327 Optical Spectroscopy: Theory and Applications

Spectroscopic methods to be covered include fluorescence, both ensemble and single molecule, and absorption (circular dichroism); fluorescence correlation spectroscopy will also be discussed. The quantum chemistry /physics behind these methods will be reviewed.

Credit 2 units.

Typical periods offered: Fall

BBS 5328 Structural Biology Journal Club

Multi-laboratory research colloquia for DBBS graduate students focused on structural biology and complementary biophysical techniques. Course credit requires student presentation for credit.

Credit 1 unit.

Typical periods offered: Spring

BBS 5336 Computational Biophysics Journal Club

This course covers a combination of classic and recent publications on computational methods for studying biomolecules. Students participating for credit will be required to present at least once.

Credit 1 unit.

Typical periods offered: Spring

BBS 5357 Chemistry and Physics of Biomolecules

This course covers three major types of biomolecular structures: proteins, nucleic acids, and membranes. Basic structural chemistry is presented as well as the biophysical techniques used to probe each type of structure. Selected topics covered include protein folding, protein design, X-ray crystallography, NMR spectroscopy, nucleic acid bending and supercoiling, nucleic acid:protein interactions, RNA folding, membrane organization, fluidity, permeability and transport, and membrane channels. The weekly discussion section will cover problem sets and present current research papers. This is one of the required courses for the biochemistry and for the molecular biophysics graduate programs. Prior course work in biochemistry and physical chemistry is recommended but not required.

Credit 3 units.

Typical periods offered: Fall

BBS 5358 Biochemical and Biophysical Investigations of Infectious Diseases Journal Club

Biochemical and biophysical approaches continue to advance as powerful approaches to the understanding of human disease processes. This journal club covers recent papers in which these approaches address aspects of infectious diseases or inflammation. Students who enroll for credit will be expected to participate in weekly presentations and to present one to two papers along with accompanying background information.

Credit 1 unit.

Typical periods offered: Spring

BBS 5392 Molecular Microbiology & Pathogenesis

Course is devoted to studying microorganisms, particularly those that cause disease, with an emphasis on the molecular interactions between pathogens and hosts. First third of the course focuses on virology, second third on bacteriology and the last third on eukaryotic pathogens.

Credit 4 units.

Typical periods offered: Fall, Spring

BBS 5393 Molecular Virology Journal Club

Journal club covering a broad range of topics in virology with an emphasis on pathogenesis or molecular biology of medically important viruses. A minimum of one student presentation with faculty critique.

Credit 0.5 units.

Typical periods offered: Fall, Spring

BBS 5397 Current Literature in Microbiology

Presentations by students on a broad range of topics of current interest in microbiology. The course will emphasize presentations and discussion skills. Credit requires attendance and participation at all sessions and one presentation.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5412 Tropical and Molecular Parasitology

Graduate level seminar course focusing on current scientific literature in molecular parasitology. The journal club will meet biweekly during the Fall and Spring semesters. Students will attend both semesters in order to receive one credit. The seminar series will run jointly with a research conference in Tropical and Molecular Parasitology. Outside speakers will be invited for the seminar series to emphasize important developments in tropical medicine and molecular parasitology. In advance of the invited speakers, topics will focus on their previous research publications.

Credit 0.5 units.

Typical periods offered: Fall

BBS 5417 Hematology Division Journal Club: Current Topics in Cellular, Molecular, and Stem Cell Biology

This journal club covers a broad range of topics of current interest, including the fields of biochemistry, molecular biology, cell biology, developmental biology, and immunology. Speakers usually give a brief background to introduce the topic and then focus on one-two papers from the current literature. Presentations are given by graduate students, post-doctorates, and faculty. Each attendee presents two-three times per year. Participants are expected to attend all the sessions. This journal club was founded in 1966.

Credit 1 unit.

Typical periods offered: Fall, Spring



BBS 5425 Immunology of Infectious Diseases Journal Club

The goal of this Journal Club (JC) is to provide 2nd year students in MMMP program a platform to discuss new and emerging concepts on mechanisms by which host immune responses mediate protection against infectious diseases. This exercise will also enable the student who attend the fundamental Immunology course to apply their knowledge to understand the basis for immunology of infectious diseases. The format will include faculty who will select cutting-edge papers and head the discussion during the JC session.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5426 ID Gateway: Translational and Public Health Aspects of Basic Infectious Disease Research

This course provides an opportunity for students, postdoctoral fellows, infectious disease fellows and faculty to explore issues at the interface between patient care, public health and basic research in the area of microbial pathogenesis.

Credit 2 units.

Typical periods offered: Spring

BBS 5445 DNA Metabolism Journal Club

Presentation of current research papers in DNA replication, DNA repair, and DNA recombination, with an emphasis on basic biochemical and biophysical approaches.

Credit 1 unit.

Typical periods offered: Spring

BBS 5456 Advanced Crystallography

The advanced course in Protein Crystallography will address all aspects of modern protein crystallography including fundamentals of crystallography, the derivation of the structure factor and electron density equation, symmetry and space groups, direct methods, isomorphous replacement, molecular replacement, data collection, and crystal growing theory and techniques. Prerequisite, Physical Chemistry & Bio 5325 Protein Structure and Function. Two class hours per week.

Credit 2 units.

Typical periods offered: Spring

BBS 5469 Biochemistry, Biophysics, and Structural Biology Seminar

Student presentation of Biochemistry, Biophysics or Structural Biology topic. Second Year Students present from literature; senior students give formal research seminar. Attendance required of all BBSB Graduate Students.

Credit 0.5 units.

Typical periods offered: Fall, Spring

BBS 5480 Nucleic Acids & Protein Biosynthesis

Fundamental aspects of the structure, biosynthesis, and function of nucleic acids and the biosynthesis of proteins. Emphasis on mechanisms involved in the biosynthetic processes and the regulation thereof. Lecture course supplemented with student discussions of research papers.

Credit 3 units.

Typical periods offered: Fall

BBS 5483 Human Genetic Analysis

Basic Genetic concepts: meiosis, inheritance, Hardy-Weinberg Equilibrium, Linkage, segregation analysis; Linkage analysis: definition, crossing over, map functions, phase, LOD scores, penetrance, phenocopies, liability classes, multi-point analysis, non-parametric analysis (sibpairs and pedigrees), quantitative trait analysis,

determination of power for mendelian and complex trait analysis; Linkage Disequilibrium analyses: allelic association (case control designs and family based studies), QQ and Manhattan plots, whole genome association analysis; population stratification; Quantitative Trait Analysis: measured genotypes and variance components. Hands-on computer lab experience doing parametric linkage analysis with the program LINKAGE, model free linkage analyses with Genehunter and Merlin, power computations with SLINK, quantitative trait analyses with SOLAR, LD computations with Haploview and WGAViewer, and family-based and case-control association analyses with PLINK and SAS. The methods and exercises are coordinated with the lectures and students are expected to understand underlying assumptions and limitations and the basic calculations performed by these computer programs. Auditors will not have access to the computer lab sessions.

Credit 3 units.

Typical periods offered: Fall

BBS 5484 Genetics and Development of C. Elegans Journal Club

Students will present a research paper (or present their current thesis research) and the appropriate background material.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5487 Genetics and Genomics of Disease

The course will cover the use of genomic and genetic information in the diagnosis and treatment of disease, with an emphasis on current practice and existing gaps to be filled to achieve precision medicine. Areas of discussion include: bioinformatics methods; assessment of pathogenicity; use and curation of disease variant databases; discovery of incidental findings; genomics applications in Mendelian disease, complex traits, cancer, pharmacogenomics, and infectious disease; design of clinical trials with genetic data; ethical and policy issues.

Credit 2 units.

Typical periods offered: Fall, Spring

BBS 5488 Genomics

This course is designed for beginning graduate students who want to become familiar with the basic concepts and applications of genomics. The course covers a wide range of topics including how genomes are mapped and sequenced as well as the latest computational and experimental techniques for predicting genes, splice sites, and promoter elements. High throughput techniques for ascribing function to DNA, RNA, and protein sequences including microarrays, mass spectrometry, interspecies genome comparisons, and genome-wide knock-out collections will also be discussed. Finally, the use of genomic techniques and resources for studies of human disease will be discussed. A heavy emphasis will be put on students acquiring the basic skills needed to navigate databases that archive sequence data, expression data and other types of genome-wide data. Through problem sets, the students will learn to manipulate and analyze the large data sets that accompany genomic analyses by writing simple computer scripts. While students will become sophisticated users of computational tools and databases, programming and the theory behind it are not covered in this course.

Credit 4 units.

Typical periods offered: Spring

BBS 5489 Human Genetics Journal Club

In this biweekly journal club on Human Genetics we will present and discuss current cutting edge papers in human and mammalian molecular genetics. Students learn presentation skills, how to critique a paper and how to interact with a very active and critical audience. Any person interested in the current state of the art in Human

Genetics may attend this course. It is a requirement that all students wishing to earn credit in this course must present a 1.5 hour journal club talk and must regularly attend and participate in the journal club throughout the year.

Credit 0.5 units.

Typical periods offered: Fall, Spring

BBS 5491 Advanced Genetics

Fundamental aspects of organismal genetics with emphasis on experimental studies that have contributed to the molecular analysis of complex biological problems. Examples are drawn primarily from yeast, nematodes, fruit flies, mouse, and humans. Students will conceive and write an original research proposal with a substantial genetics component; the learning goal is to build skills in developing hypotheses from the literature and designing experimental approaches to test those hypotheses.

Credit 3 units.

Typical periods offered: Spring

BBS 5496 Seminar in Computational Molecular Biology

Students present current research papers and the appropriate background material in the field of Computational Biology. Arts & Sciences students must take this course for credit; Engineering students must take this course Pass/No Pass.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5499 Cancer Informatics Journal Club

This journal club will explore current topics in cancer informatics. Current literature will be reviewed for advanced cancer genome analysis methods, statistics, algorithms, tools, databases, and other informatics resources.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5500 Medical Genetics

A significant portion of the first-year course in basic medical genetics devoted to human and clinical genetics, with emphasis on how genomic information will transform the practice of medicine. Topics covered include population genetics; molecular basis of mutations; human functional genomics; mouse models of human disease; pharmacogenomics; metabolic defects. Lectures, small group discussions, patient information session.

Credit 2 units.

Typical periods offered: Spring

BBS 5501 Biology of the Visual System

The purpose of the course is to provide a fascinating view of vertebrate eye development, anatomy, physiology and pathology. Topics to be covered include the molecules that control eye formation, ocular stem cells, the physiology of transparency, hereditary ocular diseases, phototransduction, the neurobiology of the retina and central visual pathways, age-related eye diseases, and many others. The course is open to all second year graduates students and above. Ophthalmology residents and postdocs with an interest in vision are strongly encouraged to attend.

Credit 3 units.

Typical periods offered: Fall

BBS 5505 Independent Study in Fundamentals of Molecular and Microbial Genetics

This literature-based course will introduce students to seminal and current studies in molecular and microbial genetics. Students will read and present a minimum of 12 landmark papers that helped shape our understanding of molecular and microbial genetics. Emphasis will be placed on students' ability to comprehend and explain these studies via chalk talks. All presentations will be given by students.

Credit 2 units.

Typical periods offered: Fall, Spring

BBS 5507 Genome Engineering Methods and Applications

This course will cover the basic principles of genome engineering with emphasis on Cas9/CRISPR technology. It will consist of discussion sessions in which students will present assigned manuscripts followed by a general discussion of the topic directed by the instructor. The course will cover the mechanisms of genome editing using host DNA repair systems, the function of Cas9, and how Cas9 can be harnessed to introduce defined mutations into almost any genome. The use of Cas9 to activate or repress genes, alter chromatin modifications, and the application of these Cas9 systems to conducting genome-scale screens in mammalian cells as well as its use in studying cell fate will be highlighted. Finally, we will study how Cas9 methodologies can be used to introduce disease-associated variants into pluripotent stem cells (e.g. iPSCs) that can be differentiated into disease-relevant cell for use in functional genomic studies.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5512 Diseases of Membrane Transport & Excitability

Classes will consider the molecular basis of the disease as well as animal models and current clinical studies. Addressing studies from the level of basic biophysical and molecular properties of the underlying ion channels/transporters, to the cellular defects, to organ and animal outcomes and therapies., which will encourage and force students to develop their ability to integrate understanding at multiple levels. Students will be introduced to emerging ideas in clinical diagnosis, management and treatment, when appropriate, clinical specialists will allow student participants to directly observe and participate in the clinical experiences.

Credit 2 units.

Typical periods offered: Spring

BBS 5513 ITVS Project Building

The overall goal is to have intense guidance to construct a grant/fellowship application. Students should expect to have a near completed F30/F31 application by the end of this course. Students will study previous F30/F31 applications and sit on a mock panel to review real world grants from their peers. They will use this experience to understand the reviewers perspective when writing fellowships and grants in the future. Students will draft all portions of a research proposal with feedback from their peers, the course instructor and faculty mentors.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5540 Neural Sciences

An integrated course dealing with the structure, function and development of the nervous system. The course will be offered in the Spring of the first year Medical School calendar.

Credit 5 units.

Typical periods offered: Spring

BBS 5543 Oral Presentation of Scientific Data

Practical course on how to prepare and present scientific data to an audience. Meets once a week for 90 minutes.

Credit 1 unit.

Typical periods offered: Spring

BBS 5571 Cellular Neurobiology

This course will present a fully integrated overview of nerve cell structure, function and development at the molecular and cellular level. Broad topics to be covered include gene structure and regulation in the nervous system, basic neurophysiology, presynaptic and postsynaptic mechanisms of chemical neurotransmission, sensory transduction, neurogenesis and migration, axon guidance and synapse formation. Three 90 minute lectures plus one 75 minute paper discussion section per week. There will be four exams, as well as weekly quizzes.

Credit 6 units.

Typical periods offered: Fall

BBS 5572 Principles of Medicinal Chemistry

Overview of basic principles of medicinal chemistry covering drug targets and concepts of metabolism, efficacy and potency as relevant to drug design.

Credit 3 units.

Typical periods offered: Fall

BBS 5577 Synapses Journal Club

Synaptic function and malleability are fundamental to nervous system function and disease. This is an advanced seminar in the development, structure, and function of the synapse in health and disease. It is a natural extension of topics covered in Bio 5571. It may be primarily of interest to students in the Neurosciences Program, but also to students in MCB, Development, Biochemistry, Computational Biology, and Molecular Biophysics. Generally a topic for the semester helps focus the group; past topics have included Synapses and Disease, Neurotransmitter Transporters, Glutamate Receptors, Dendrites, GABA receptors. Participants (students, postdocs, and faculty) alternate responsibility for leading critical discussion of a current paper. Active participation offers the opportunity for students to hone their critical thinking and presentation skills. Students enrolling for credit will be expected to attend each week, to lead discussion once per semester and to provide written critiques (1-2 pages each) of two papers.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5617 Development Biology PhD Program Seminar

In response to student feedback for additional training in Developmental Biology obtained from surveys and group meetings, we propose a new seminar course in Developmental Biology. This once a week course will introduce student in the Developmental, Regenerative, and Stem Cell Biology PhD Program both to the classical embryological experiments that define key concepts in developmental biology, such as cellular fields, equivalence groups, cytoplasmic determinants, and the more modern experiments that uncovered the genetic and molecular basis of these processes. In general, the classes will be individual sessions on professional development, such as scientific presentation, how to navigate graduate school, etc.

Credit 1 unit.

Typical periods offered: Fall

BBS 5619 Advanced Cognitive, Computational, and Systems Neuroscience

This course will develop critical thinking and analysis skills with regard to topics in Cognitive, Computational and Systems Neuroscience. Course format will be a series of modules composed of intensive, faculty-led case studies on interdisciplinary topics at the intersection of psychology, computation and neuroscience. The goal will be to highlight the benefits of integrative, interdisciplinary approaches, by delving into a small set of topics from a variety of perspectives, rather than providing a survey-level introduction to a broader set of topic areas. Modules will involve a combination of lectures and student-led discussion groups, with students further expected to complete a multi-disciplinary integrative final review paper. Case-study topics will vary somewhat from year to year, but are likely to include some of the following: temporal coding as a mechanism for information processing, coordinate transformations in sensory-motor integration, mechanisms of cognitive control, motor control strategies including application to neural prosthetics, and memory systems in health and disease.

Credit 3 units.

Typical periods offered: Fall

BBS 5622 Cognitive, Computational, and Systems Neuroscience Project Building

The goal of this course is to help students in the CCSN Pathway develop the critical thinking skills necessary to develop and implement high quality, interdisciplinary research projects. Throughout the course of the semester, each student will develop a research plan in their chosen area of interest. The plan will be developed in consultation with at least two faculty members (from at least two different subdisciplines within the pathway) as well as the other students and faculty participating in the course. The culmination of this course will be for each student to produce an NIH-style grant proposal on the research project of their choosing. For most students, this will serve either as their thesis proposal or a solid precursor to the thesis proposal. The course will be designed to help facilitate the development of such a research plan through didactic work, class presentations, class discussion, and constructive feedback on written work. The course will begin with a review of written examples of outstanding research proposals, primarily in the form of grant submissions similar to those that the students are expected to develop (i.e., NRSA style proposals, R03 proposals). Review of these proposals will serve as a stimulus to promote discussion about the critical elements of good research proposals and designs in different areas. Each student will be expected to give three presentations throughout the semester that will provide opportunities to receive constructive feedback on the development and implementation of research aims. The first presentation (towards the beginning of the semester) will involve presentation of the student's general topic of interest and preliminary formulation of research questions. Feedback will emphasize ways to focus and develop the research hypotheses into well-formulated questions and experiments. The second presentation will involve a more detailed presentation of specific research questions (along the lines of NIH-style Specific Aims) and an initial outline of research methods. The final presentation will involve a fuller presentation of research questions and proposed methods. Feedback, didactic work, and group discussion throughout the semester will include guidance on critical components of the development of a research plan, including how to perform literature searches, formulate testable hypotheses, write critical literature summaries, and design experiments and analyses. The course will meet once a week, with faculty members from different tracks within the Pathway present at each meeting. This will allow students to receive feedback from several perspectives.

Credit 3 units.

Typical periods offered: Fall, Spring

BBS 5646 First-Year Fundamentals

This course will provide a two-part introduction to neuroscience research fundamentals. Namely, it will introduce elementary statistical analysis for neuroscience research as well as grant writing to support neuroscience-related research. Enrollment is limited to first-year neuroscience students.

Credit 0.5 units.

Typical periods offered: Spring

BBS 5648 Coding and Statistical Thinking in the Neurosciences

Students are introduced to scientific programming in Python. Students will learn common programming constructs and how to visualize and analyze data. Coding will be integrated into a statistics curriculum introducing summary statistics, probability distributions, simulation and hypothesis testing, and power analysis for experimental design.

Credit 3 units.

Typical periods offered: Fall, Spring

BBS 5651 Neural Systems

The course will consist of lectures and discussions of the sensory, motor and integrative systems of the brain and spinal cord, together with a weekly lab. The lectures will present aspects of most neural systems, and will be given by faculty members who have specific expertise on each topic. The discussions will include faculty led group discussions and papers presented and discussed by students. The labs will include human brain dissections, examination of histological slides, physiological recordings, behavioral methods, computational modeling, and functional neural imaging.

Credit 6 units.

Typical periods offered: Spring

BBS 5663 Neurobiology of Disease

This is an advanced graduate course on the pathology of nervous system disorders. This course is primarily intended to acquaint Neuroscience graduate students with a spectrum of neurological diseases, and to consider how advanced neuroscientific approaches may be applied to promoting recovery in the brain. Topics will be presented by Washington University faculty members and include: neurooncology, stroke, retinal disease, perinatal brain injury, neurodegenerative disorders, neuroinflammation, epilepsy, and psychiatric disorders. The class will meet for 2 hours each week. Each session will be led by a faculty guest with expertise in a specific neurological or psychiatric disease. In the first hour, the speaker will discuss clinical manifestations and pathophysiology. Where possible, the clinical presentation will be supplemented with a patient demonstration or videotape. After a 30 minute break for pizza and soda, the second hour will follow a journal club format. Two or three students will review current papers assigned by the speaker or course director. This course is offered in alternate years. Prerequisite: Introductory neuroscience course at the graduate or medical school level.

Credit 2 units.

Typical periods offered: Spring

BBS 5678 Clocksclub

Clocksclub focuses on recent advances in the study of biological timing including sleep and circadian rhythms. Participants discuss new publications and data on the molecules, cells and circuits underlying daily rhythms and their synchronization to the local environment. Students registered for this journal club will lead a discussion once during the semester.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5702 Current Approaches in Plant and Microbial Research

This course is designed to introduce graduate students and upper-division undergraduates to contemporary approaches and paradigms in plant and microbial biology. The course includes lectures, in-class discussions of primary literature and hands-on exploration of computational genomic and phylogenetic tools. Evaluations include short papers, quizzes, and oral presentations. Over the semester, each student works on conceptualizing and writing a short NIH-format research proposal. Particular emphasis is given to the articulation of specific aims and the design of experiments to test these aims, using the approaches taught in class. Students provide feedback to their classmates on their oral presentations and on their specific aims in a review panel.

Credit 4 units.

Typical periods offered: Spring

BBS 5703 Experimental Design and Analysis in Biological Research

In-depth exploration of landmark and current papers in genetics, molecular and cell biology, with an emphasis on prokaryotes and eukaryotic microbes. Class discussions will center on such key discoveries as the chemical nature of genetic material, the genetic code, oxygen producing light-spectrum, cell-cell signaling, transcriptional regulation, the random nature of mutation, and cell cycle regulation. Emphasis will be placed on what makes a good question or hypothesis, expedient ways to address scientific problems, and creative thinking. The last third of the course will consist of student-run seminars on selected topics to increase proficiency in the synthesis of new material and public presentation skills.

Credit 2 units.

Typical periods offered: Fall

BBS 5723 Seminar in Plant and Microbial Bioscience

This course emphasizing presentation skill and critical analysis counts towards the PMB Graduate Program's journal club course requirement. Students will be responsible for dividing and presenting 30 current research publications selected by the course masters. In addition to assembling brief PowerPoint presentations providing background and significance for their assigned articles, students are expected to provide classmates with a 1 page primer and short list of relevant references

Credit 2 units.

Typical periods offered: Fall, Spring

BBS 5801 Biochemistry & Molecular Biophysics Seminar Journal Club

This will be a journal club-based seminar course mirroring the topics covered by Biochemistry and Molecular Biophysics (BMB) seminar speakers during the concurrent semester. Students will present a paper published by one of the BMB seminar speakers one-week ahead of that speaker's seminar. This will allow students and faculty to become more familiar with the research programs of BMB invited speakers, likely stimulating discussion within the Q&A period after the seminar, as well as during informal meet-the-speaker lunch sessions. Students will be evaluated on their journal club presentation, attendance and class participation.

Credit 1 unit.

Typical periods offered: Spring

BBS 5840 Climate Change Reading Group

The Climate Change Reading Group is made up of multi-disciplinary faculty and students from multiple institutions in St Louis: WUSTL, UMSL, SLU, Missouri Botanical Garden, Danforth Center, and more. Many of us in different labs, departments, and institutions around STL are actively investigating aspects and effects of climate change; this reading group provides a venue for interacting with others in the community. Subject matter within the context of Climate Change will

be chosen each week by a different presenter. Students can join this reading group for 1 credit if they agree to read all papers, actively participate in discussions, find and present one high quality scientific paper on climate change in the field of their choice and moderate the discussion of this paper. The students will be evaluated on their participation, their understanding of the issues, and their presentation. Credit 1 unit.

Typical periods offered: Spring

BBS 5850 Seminar in Floristic Taxonomy

This weekly seminar provides an introduction to/overview of Plants, each semester progressively covering orders and families in a sequence derived from the Angiosperm Phylogeny Website (<http://www.mobot.org/MOBOT/Research/APweb/welcome.html>); in Spring 2015, the seminar will cover several crown orders of the monocots, including grasses and relatives. Weekly presentations include a summary of all relevant information (molecular, chemical, anatomical, embryological, morphological, ecological, geographical, historical/paleontological, etc.) about the plant group under consideration, review of the classification/phylogeny of the group, examination of fresh and/or preserved specimens, and discussion of relationships, human uses, and other relevant aspects of the biology of that group. Credit will be contingent on one (or two) seminar presentation(s) per student, regular attendance and active participation in group discussions.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5866 Communicating Science: Writing for Multiple Audiences

This course introduces strategies for writing effectively and communicating scientific research to a variety of audiences. Students will learn to reduce jargon, explain scientific concepts in common language, write clearly and concisely, and use sentence structure to maximum efficiency. Written assignments emphasize the significance and innovation in scientific research that appeal to broad audiences, including: the general public, students, policy makers, grant reviewers, and journal editors. This course meets biweekly and consists of lectures and small group sessions. You must enroll in both the lecture session (section 1) and a small group (section A, B, C, or D).

Credit 1 unit.

Typical periods offered: Spring

BBS 5867 Career Planning for Biological Scientists

This course will guide you through nationally recognized and evidence-based career exploration curricula. It is intended for DBBS Ph.D. students and bioscience postdocs who want to jump-start career planning and professional skills needed for a broad range of scientific careers. Topics include self-assessment, career exploration, and goal-setting for long-term success. You will work on a team to research the scientific career path of your choice. Each team will study the specific required knowledge, skills, and attributes of their career interest or employment sector. As part of this research project, you will complete a simulated job exercise and network with alumni or local leaders in your chosen field, gaining valuable real-world insights and creating essential professional connections.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5900 Research

Enrolled students will meet in-person with faculty for a minimum of 1 hour per week. Pass/No Pass Only.

Credit 12 units.

Typical periods offered: Fall, Spring, Summer

BBS 5902 Introduction to the Scholarship of Teaching and Learning

In this course, advanced graduate students and postdocs in STEM will 1) learn the fundamentals of the Scholarship of Teaching and Learning (SoTL)-which is the practice of developing, reflecting on, and evaluating teaching methods to improve student learning, 2) Develop a working knowledge of SoTL, which draws on research in education, STEM education, and cognitive science, 3) Understand how SoTL can lead to the dissemination of new knowledge to a broad audience of educators through publication and presentations., and 4) Develop the central elements of a SoTL project. These elements include articulating questions about classroom teaching that can be addressed in a SoTL research project; developing working hypotheses in response to the questions; designing an evaluative plan, including specific research methods, the type of data to be collected, and how the data will be analyzed in relation to the hypotheses; identifying and understanding necessary procedures to obtain IRB approval for the research.

Credit 1 unit.

Typical periods offered: Spring

BBS 5910 Nano Topics in Biology and Biomedical Sciences

This course will expose students to advanced topics, methods, and skills in biomedical sciences. The course will rapidly fill gaps in student knowledge in areas that are relevant to their research and or professional development. Each section of the course will be offered independently, sometimes in coordination with existing journal clubs and other seminars. Some sections will focus on technique; others will be theoretically or conceptually focused. Each section will be led by a faculty member drawn from DBBS in an area of their expertise. Objectives include deepening students knowledge and skill sets in critical thinking, experimental design, and technical prowess as related to the specific themes of each section.

Credit 0.5-1 units.

Typical periods offered: Fall, Spring

BBS 5911 Seminar in Biology & Biomedical Sciences

These seminars cover the recent literature in various areas not included in other courses, or in more depth than other courses. Credit to be arranged.

Credit 12 units.

Typical periods offered: Spring

BBS 5915 Teaching Practice in Biology & Biomedical Sciences

Students serve as teaching assistants for undergraduate and graduate level courses. Faculty-supervised activities include: lecture preparation and presentation; leading discussion and problem-solving sessions; laboratory instruction.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5922 Entering Mentoring

This course is a series of facilitated discussions aimed at developing and improving mentoring skills for those involved in supervising undergraduate research experiences. It is designed for postdocs and graduate students who are or will be 'bench mentors' for undergraduates doing Bio 500 and/or Summer Research. Participants will receive Entering Mentoring materials, including articles and worksheets to facilitate mentoring interactions with their mentee, plus several resource books relevant to mentoring. They will develop a mentoring philosophy statement, work on specific assignments designed to improve their relationship with their mentee and share their present and past experiences as mentors and mentees. Bench mentors will be eligible for a travel award to help defray expenses for attending a meeting with their mentee, if that student wins one of the HHMI SURF travel awards (4-5 awarded annually) or is otherwise being supported to present at a scientific meeting. Graduate students

and postdocs do NOT need to be mentoring a student at the time of the course; it is open to all with an interest in mentoring now or in the future. Note: The sessions will be held either at the beginning of the day or the end of the day at the Danforth campus. Once registration closes, an email will be sent to those registered to poll for the best days & times.

Credit 1 unit.

Typical periods offered: Fall, Spring

BBS 5923 Foundations in Cancer Biology

This basic cancer biology class is designed to provide a didactic foundation into cancer biology principles. These will include tumor suppressors & oncogenes, DNA damage pathways, protein modifications, tumor progression, metastasis, tumor microenvironment and numerous other topics relevant to cancer biology.

Credit 3 units.

Typical periods offered: Fall

BBS 5928 Experimental Cancer Biology

This basic cancer biology class is meant to coincide with the Foundation course. Topics will be discussed in parallel with Foundation course topics but from the perspective of the laboratory experimentalist. Experimental details will provide the basis for understanding how to ask and answer important questions in the cancer biology laboratory.

Credit 3 units.

Typical periods offered: Fall

BBS 5940 Foundations in Cancer Biology and Experimental Cancer Biology

This advanced course will teach the clinical perspective of cancer biology using topics from oncology, radiation biology, radiology, pathology, immunology and surgery. Students will learn to write a grant proposal that includes a clinical trial element while also shadowing physicians in a real cancer clinical setting.

Credit 3 units.

Typical periods offered: Spring

BBS 5989 Advanced Topics in Neuroscience

This course will expose upper-level and postdoctoral students to advanced topics and methods in neuroscience. The course will rapidly fill gaps in student knowledge in areas that may be relevant to new directions in thesis work or interest areas. Each section of the course will be offered asynchronously, sometimes in coordination with existing journal clubs and other seminars. Each section will meet for two hours per week for three weeks. Sections may start with a didactic component or a review paper, but they will quickly delve into the discussion of primary papers curated by faculty and covering a focused topic. It is expected that papers will cover both historical and current contexts. Some sections will focus on technique; others will be conceptually focused. Each section will be led by a faculty member drawn from the Neuroscience program in an area of their expertise. Objectives include deepening critical thinking, statistical knowledge, experimental design, and technical prowess.

Credit 0.5-1 units.

Typical periods offered: Fall, Spring

BBS 5999 Independent Work

This course is designed for individual students wishing to explore indepth specialized areas of literature or technology with one or more faculty members. Credit will vary with the amount of work and discussion, but cannot be more than 3 credits.

Credit 3 units.

Typical periods offered: Fall, Spring

BBS 9000 Full-Time Graduate Research/Study

Full-Time Graduate Research/Study

Credit 0 units.

Typical periods offered: Fall, Spring, Summer

BBS 9001 Full-Time Graduate Study in Absentia

Full-Time Graduate Study in Absentia

Credit 0 units.

Typical periods offered: Fall, Spring, Summer

BBS 9002 Full-Time Graduate Study Extension

Full-Time Graduate Study Extension

Credit 0 units.

Typical periods offered: Fall, Spring, Summer

Policies

The Vagelos Division of Biology & Biomedical Sciences has more than 700 students with access to over 700 faculty mentors with whom they may perform their dissertation work. This unparalleled flexibility results from the joint governance of DBBS by the Washington University School of Medicine and the School of Arts & Sciences — a 50-year-old model that fosters the most impactful science executed at the boundaries of fields, programs, disciplines, schools and departments. A hallmark of DBBS is our commitment to interdisciplinary collaboration. By transcending traditional academic boundaries, our programs consistently earn top-tier national and international rankings.

In this interdisciplinary environment, graduate students are governed by policies and guidelines established by the university, the School of Medicine, and DBBS. The policies identified here and elsewhere in this *Bulletin* are not to be considered a complete list. However, every attempt has been made to identify the location of those policies that affect most or all students in DBBS.

The University Policies (p. 19) page in this *Bulletin* outlines regulations for both graduate and undergraduate students. For further details, please consult the Office of the University Registrar website and the University Policies page of the WashU website. Graduate students are encouraged to review the specific policy categories relevant to their degree programs.

All DBBS students must follow the University PhD Policies & Requirements (p. 33) as set forth by the Provost's Office.

Degrees in DBBS are conferred by the School of Medicine; hence, students must follow the applicable policies as set forth by the school, including the relevant PhD Program Policies & Guidelines.

DBBS students can reference the DBBS Student Handbook for student guidelines across all Division programs.

Division of Computational & Data Sciences

The Division of Computational & Data Sciences (DCDS) at Washington University in St. Louis trains students interested in problems from across a range of disciplines that share a common reliance on data and computing.

The introduction of now-standard tools from statistical analysis and hypothesis testing transformed the practice of natural and social science in the mid-20th century. Emerging tools from computational and data science have the potential to bring about an even larger transformation of scientific practice, especially in the social sciences. The questions raised by data generated by and about human behavior are engaging and profound. However, many if not most of these questions can only be tackled using a multidisciplinary approach that combines a deep knowledge of the capabilities and operation of data science techniques with the domain expertise needed to apply them effectively to the problems under consideration.

Doctoral students in Computational & Data Sciences receive strong methodological training in modern computational and statistical methods, and they also acquire expertise in a particular social science application area.

The program is inherently interdisciplinary and brings together leading experts from across the university who are using data to solve some of the greatest challenges that our world faces today. Faculty include both data and computing experts as well as domain experts from different application areas.

Faculty

Eunhye Ahn

Assistant Professor, Brown School
PhD, University of Southern California

Ruopeng An

Assistant Professor, Brown School
PhD, Pardee RAND Graduate School

Dennis Barbour

Associate Professor, Biomedical Engineering
MD, Johns Hopkins University
PhD, Johns Hopkins University

Deanna Barch

Professor and Chair, Psychological & Brain Sciences
PhD, University of Illinois

Janine Bijsterbosch

Assistant Professor, Radiology
PhD, University of Sheffield

Ryan Bogdan

Associate Professor, Psychological & Brain Sciences
PhD, Harvard University

Todd Braver

Professor, Psychological & Brain Sciences, Radiology, and Neuroscience
PhD, Carnegie Mellon University

Michael Brent

Henry Edwin Sever Professor of Engineering, Computer Science & Engineering
PhD, Massachusetts Institute of Technology

Derek Brown

Associate Professor, Brown School
PhD, Duke University

Sheretta Butler-Barnes

Associate Professor, Brown School
PhD, Wayne State University

David Carter

Associate Professor, Political Science
PhD, University of Rochester

Yixin Chen

Professor, Computer Science & Engineering
PhD, University of Illinois

Dino Christenson

Associate Professor, Political Science
PhD, Ohio State University

Brett Drake

Professor, Brown School
PhD, University of California, Los Angeles

Ted Enamorado

Assistant Professor, Political Science
PhD, Princeton University

Randi Foraker

Associate Professor of Public Health, Brown School
PhD, The University of North Carolina at Chapel Hill

Patrick Fowler

Track Chair, Social Work & Public Health
Associate Professor, Brown School
PhD, Wayne State University

Roman Garnett

Assistant Professor, Computer Science & Engineering
PhD, University of Oxford

Aimilia Gastouni

Assistant Professor, Radiology
PhD, National Technical University of Athens

Chris Gill

Professor, Computer Science & Engineering
DSc, Washington University in St. Louis

Brian Gordon

Assistant Professor, Radiology
PhD, University of Illinois

Roch Guérin

Professor and Chair, Computer Science & Engineering
PhD, California Institute of Technology

Shenyang Guo

Professor, Brown School
PhD, University of Michigan–Ann Arbor

Ross Hammond

Associate Professor, Brown School
PhD, University of Michigan

Jenine Harris

Associate Professor, Brown School
PhD, Saint Louis University

Chien-Ju Ho

Assistant Professor, Computer Science & Engineering
PhD, University of California, Los Angeles

Josh Jackson

Associate Professor, Psychological & Brain Sciences
PhD, University of Illinois Urbana-Champaign

Nathan Jacobs

Professor, Computer Science & Engineering
PhD, Washington University in St. Louis

Kim Johnson

Associate Professor, Brown School
PhD, University of Minnesota

Melissa Jonson-Reid

Professor, Brown School
PhD, University of California, Berkeley

Brendan Juba

Assistant Professor, Computer Science & Engineering
PhD, Massachusetts Institute of Technology

Thomas Kannampallil

Assistant Professor, Anesthesiology
PhD, University of Illinois

Caitlin Kelleher

Associate Professor, Computer Science & Engineering
PhD, Carnegie Mellon University

Wouter Kool

Assistant Professor, Psychological & Brain Sciences
PhD, Princeton University

Matt Kreuter

Professor, Social Work & Public Health
PhD, The University of North Carolina at Chapel Hill

Albert Lai

Associate Professor and Deputy Director, Institute for Informatics
Associate Professor, Computer Science & Engineering
PhD, Columbia University

Calvin Lai

Assistant Professor, Psychological & Brain Sciences
PhD, University of Virginia

Matthew Lew

Assistant Professor, Electrical & Systems Engineering
PhD, Stanford University

Jr-Shin Li

Professor, Electrical & Systems Engineering
PhD, Harvard University

Fangqiong Ling

Assistant Professor, Energy, Environmental & Chemical Engineering
PhD, University of Illinois Urbana-Champaign

Chenyang Lu

Professor, Computer Science & Engineering
PhD, University of Virginia

Christopher Lucas

Assistant Professor, Political Science
PhD, Harvard University

Doug Luke

Professor, Brown School
PhD, University of Illinois

Phillip Marotta

Assistant Professor, Brown School
PhD, Columbia University

Andrew D. Martin

Professor, Political Science and Law
Chancellor, Washington University in St. Louis
PhD, Washington University in St. Louis

Timothy McBride

Professor, Brown School
PhD, University of Wisconsin–Madison

Jacob Montgomery

Track Chair, Political Science
Associate Professor, Political Science
PhD, Duke University

William Nomikos

Assistant Professor, Political Science
PhD, Yale University

Alvitta Ottley

Assistant Professor, Computer Science & Engineering
PhD, Tufts University

Neal Patwari

Professor, Electrical & Systems Engineering
Professor, Computer Science & Engineering
PhD, University of Michigan

Philip R.O. Payne

Professor and Director, Institute for Informatics
Professor, Computer Science & Engineering
PhD, Columbia University

Netanel Raviv

Assistant Professor, Computer Science & Engineering
PhD, Technion – Israel Institute of Technology

Zachariah Reagh

Assistant Professor, Psychological & Brain Sciences
PhD, University of California, Irvine

Andrew Reeves

Associate Professor, Political Science
PhD, Harvard University

Guillermo Rosas

Associate Professor, Political Science
PhD, Duke University

Betsy Sinclair

Professor, Political Science
PhD, California Institute of Technology

Bruno Sinopoli

Professor and Chair, Electrical & Systems Engineering
PhD, University of California, Berkeley

Aristeidis Sotiras

Assistant Professor, Radiology
PhD, École Centrale Paris

Fred Ssewamala

Associate Dean for Transdisciplinary Faculty Research, Brown School
PhD, Washington University in St. Louis

Joe Steensma

Professor of Practice, Brown School
EdD, Indiana Wesleyan University

Joshua Swamidass

Associate Professor, Pathology & Immunology
Associate Professor, Biomedical Engineering
MD, University of California, Irvine
PhD, University of California, Irvine

Jessie Sun

Assistant Professor, Psychological & Brain Sciences
PhD, University of California, Davis

Yevgeniy Vorobeychik

Associate Professor, Computer Science & Engineering
PhD, University of Michigan

Chenguang Wang

Assistant Professor, Computer Science & Engineering
PhD, Peking University

Yong Wang

Associate Professor, Electrical & Systems Engineering

Emily Willroth

Assistant Professor of Psychological & Brain Sciences
PhD, University of California, Berkeley

William Yeoh

Track Chair, Computational Methodologies
Associate Professor, Computer Science & Engineering
PhD, University of Southern California

Jeffrey Zacks

Track Chair, Psychological & Brain Sciences
Professor and Associate Chair, Psychological & Brain Sciences
PhD, Stanford University

Shen Zeng

Assistant Professor, Electrical & Systems Engineering
PhD, University of Stuttgart

Ning Zhang

Assistant Professor, Computer Science & Engineering
PhD, Virginia Polytechnic Institute and State University

Xuan Zhang

Assistant Professor, Electrical & Systems Engineering
PhD, Cornell University

Degree Requirements

Upon joining the PhD program, each student is assigned an initial advisor from the DCDS faculty. This advisor meets with the student to assess their background and to advise them on course selection.

All students complete a common core curriculum as well as a domain depth requirement in a social science area. The focus of the first year is on acquiring a common set of tools and an understanding of the ranges and types of problems students may work on as they progress through the program. The entire incoming cohort takes a unique two-semester seminar sequence solely for DCDS students, which includes both general topics and a series of data-driven dives into the types of research questions that may be encountered in each of the domain areas.

Curriculum

Required Core Courses

Please refer to the DCDS Doctoral Student Handbook for the most up-to-date core course requirements.

Domain Depth Tracks

Students will choose one of four focus tracks: Political Science, Psychological & Brain Sciences, Social Work & Public Health, or Computational Methodologies. Please refer to the DCDS Doctoral Student Handbook for the most up-to-date domain depth track requirements.

Further Requirements

Additional requirements for this program are as follows:

- A minimum of 72 credit units beyond the bachelor's level, with a minimum of 37 being course credits (including the core curriculum)
- A minimum of 24 credit units of doctoral dissertation research
- Students must maintain a cumulative average grade of B (3.0 grade-point average) for all 72 credit units.
- Required courses must be completed with no more than one grade below a B–.
- Up to 24 graduate credit units may be transferred with the approval of the Graduate Studies Committee, which is chaired by the director of graduate studies.

In addition to fulfilling the course and research credit requirements, students must do the following:

- Pass a qualifying exam.
- Successfully defend a thesis proposal.
- Present and successfully defend a dissertation.
- Complete a teaching requirement consisting of two semesters of mentored teaching experience.

Institute of Materials Science & Engineering

The Institute of Materials Science & Engineering (IMSE) at Washington University in St. Louis offers a unique, interdisciplinary PhD in Materials Science & Engineering that crosses traditional departmental and school boundaries. The field of materials science and engineering focuses on the study, development and application of new materials with desirable properties, with the goal of enabling new products and superior performance regimes. Disciplines in the physical sciences (e.g., chemistry, physics) play a central role in developing the fundamental knowledge that is needed to design materials for a variety of engineering applications (e.g., mechanical engineering, electrical engineering, biomedical engineering). Building on training that spans from fundamental to applied sciences, materials scientists and engineers integrate this fundamental knowledge to develop new materials and match them with appropriate technological needs.

The IMSE is well positioned to address the needs of a student seeking a truly interdisciplinary experience. The IMSE brings together a diverse group of faculty from departments in Arts & Sciences, the McKelvey School of Engineering, and the School of Medicine. The IMSE also oversees shared research and instrument facilities, develops partnerships with industry and national laboratories, and facilitates outreach activities.

Current focused areas of research and advanced graduate education within the IMSE include the following:

- Artificial intelligence in materials discovery and design
- Biomedical, bio-derived, and bio-inspired materials
- Materials for energy and environmental technologies
- Quantum and photonic materials and devices

Faculty

Director

Katharine M. Flores

Christopher I. Byrnes Professor, Mechanical Engineering & Materials Science
PhD, Stanford University

Professor Flores' primary research interest is the mechanical behavior of high-performance structural materials, with particular emphasis on understanding structure-processing-property relationships in bulk metallic glasses and their composites.

Professors

Jianjun Guan

Professor, Mechanical Engineering & Materials Science
PhD, Zhejiang University

Professor Guan's research interests are in biomimetic biomaterials synthesis and scaffold fabrication; bioinspired modification of biomaterials; injectable and highly flexible hydrogels; bioimageable polymers for MRI and EPR imaging and oxygen sensing; mathematical modeling of scaffold structural and mechanical properties; stem cell differentiation; neural stem cell transplantation for brain tissue regeneration; and bone and cardiovascular tissue engineering.

Marcus Foston

Professor, Energy, Environmental & Chemical Engineering
PhD, Georgia Institute of Technology

Professor Foston's research program seeks to develop innovative and novel routes to exploit and utilize lignocellulosic biomass by taking advantage of materials involved in industries such as agriculture, paper making, and forestry products.

Erik Henriksen

Professor, Physics
PhD, Columbia University

Professor Henriksen's lab research is centered on the properties of electrons confined to two dimensions. This remarkable system has yielded a tremendous amount of interesting and important physics over the past several decades, from the integer and fractional quantum Hall effects to the groundbreaking discoveries of graphene and other atomically thin crystals and especially to the recent realization of the topological nature of the electronic structure of a surprising number of materials both novel and familiar.

Song Hu

Professor, Biomedical Engineering
PhD, Washington University in St. Louis



Professor Hu's research focuses on the development of cutting-edge optical and photoacoustic technologies for high-resolution structural, functional, metabolic, and molecular imaging in vivo and their applications in neurovascular disorders, cardiovascular diseases, regenerative medicine, and cancer.

Vijay Ramani

Roma B. & Raymond H. Wittcoff Distinguished University Professor of Environment & Energy
PhD, University of Connecticut

Vijay Ramani's research interests lie at the confluence of electrochemical engineering, materials science and renewable and sustainable energy technologies. The National Science Foundation, Office of Naval Research, ARPA-E, and Department of Energy have funded his research, with mechanisms including an NSF CAREER award (2009) and an ONR Young Investigator Award (ONR-YIP; 2010).

Srikanth Singamaneni

The Lilyan & E. Lisle Hughes Professor, Mechanical Engineering & Materials Science
PhD, Georgia Institute of Technology

Professor Singamaneni's research interests include plasmonic engineering in nanomedicine (in vitro biosensing for point-of-care diagnostics, molecular bioimaging, nanotherapeutics); photovoltaics (plasmonically enhanced photovoltaic devices); surface-enhanced Raman scattering (SERS)-based chemical sensors, with particular emphasis on the design and fabrication of unconventional and highly efficient SERS substrates; hierarchical organic/inorganic nanohybrids as multifunctional materials; bioinspired structural and functional materials; polymer surfaces and interfaces; responsive and adaptive materials and scanning probe microscopy; and surface force spectroscopy of soft and biological materials.

Fuzhong Zhang

Professor, Energy, Environmental & Chemical Engineering
PhD, University of Toronto

Professor Zhang's research focuses on developing synthetic biology tools and systems for the sustainable production of structurally defined chemicals and high-performance materials. Current research projects include the following: (1) engineering microbial metabolic dynamics and heterogeneity; (2) engineering metabolic pathways to produce structure-defined biofuels and chemicals; and (3) developing microbial factories to produce high-performance materials.

Associate Professors

Peng Bai

Associate Professor, Energy, Environmental & Chemical Engineering
PhD, Tsinghua University, Beijing

Professor Bai's research focuses on the development of next-generation batteries. Knowledge and tools developed in the Bai Group also apply to and benefit the design of other electrochemical energy systems, like supercapacitors and fuel cells.

Mikhail Y. Berezin

Associate Professor, Radiology
PhD, Moscow Institute of Oil and Gas/Institute of Organic Chemistry

Dr. Berezin's lab focuses on the development of novel optically active probes ranging from small molecules to nanoparticles and the development of optical instrumentation for spectroscopy and imaging using knowledge of excited states. The lab's research interest lies in the investigation and application of molecular excited states and their reactions for medical imaging and clinical treatment.

Nathaniel Huebsch

Associate Professor, Biomedical Engineering
PhD, Harvard University

Professor Huebsch's research focus is in basic and translational stem cell mechanobiology, with specific focus on hydrogels to control cell-mediated tissue repair and three-dimensional, iPSC-based heart-in-a-dish models to study the influence of mechanical loading and genetics on arrhythmia and contractility.

Matthew Lew

Associate Professor, Electrical & Systems Engineering
PhD, Stanford University

Professor Lew and his students build advanced imaging systems to study biological and chemical systems at the nanoscale, leveraging innovations in applied optics, signal and image processing, design optimization, and physical chemistry. Their advanced nanoscopes (microscopes with nanometer resolution) visualize the activity of individual molecular machines inside and outside living cells. Examples of new technologies developed in the Lew Lab include (1) using tiny fluorescent molecules as sensors that can detect amyloid proteins; (2) designing new "lenses" to create imaging systems that can visualize how molecules move and tumble; and (3) new imaging software that minimizes artifacts in super-resolution images.

Xianglin Li

Associate Professor, Mechanical Engineering & Materials Science
PhD, University of Connecticut

Professor Li's research interests are in batteries and fuel cells, including direct methanol fuel cells, lithium-oxygen batteries and battery thermal management; transport phenomena in porous media; greenhouse gas emissions and full fuel cycle analysis of fossil fuels; and life cycle assessment and economic analysis of advanced energy techniques, among others.

Mark Meacham

Associate Professor, Mechanical Engineering & Materials Science
PhD, Georgia Institute of Technology

Professor Meacham's research interests include microfluidics, micro-electromechanical systems (MEMS) and associated transport phenomena, with application to design, development and testing of novel energy systems and life sciences tools, from scalable micro-/nanotechnologies for improved heat and mass exchangers to MEMS-based tools for manipulation and investigation of cellular processes.

He is also interested in the behavior of jets and/or droplets of complex fluids during ejection from microscopic orifices, which is critical to applications as disparate as biological sample preparation and additive manufacturing.

Rohan Mishra

Associate Professor, Mechanical Engineering & Materials Science
PhD, Ohio State University

Professor Mishra's research interest is to develop quantitative structure-property correlations in materials starting from the atomic scale. To develop such correlations, his group synergistically combines electronic structure calculations with atomic-resolution electron microscope imaging and spectroscopy. The end goal is the rational design of materials with properties tailored for electronic, optical, magnetic and energy applications. Current research topics include perovskite materials for photovoltaic and optoelectronic applications, novel electrocatalysts, oxidizers, and wide-bandgap semiconductors.

Jai Rudra

Associate Professor, Biomedical Engineering
PhD, Louisiana Tech University

Jai Rudra's lab is interested in the development of nanoscale biomaterials such as nanofibers, nanoparticles, virus-like particles, and hydrogels for engaging the immune system to induce protective antibody and cell-mediated immune responses against diseases such as tuberculosis, melanoma, and flavivirus infections (i.e., West Nile and Zika). He is also investigating the development of vaccines against drugs of addiction such as cocaine.

Chuan Wang

Associate Professor, Electrical & Systems Engineering
PhD, University of Southern California

Professor Wang's research focus is on two-dimensional semiconductor nanoelectronics and optoelectronics, stretchable electronics, printed electronics, and sensors and actuators.

Patricia Weisensee

Associate Professor, Mechanical Engineering & Materials Science
PhD, University of Illinois at Urbana-Champaign

Professor Weisensee's work focuses on understanding the interplay of fluid dynamics, heat transfer, and liquid-solid interactions of droplets and other multi-phase systems. Practical applications of interest are phase change heat transfer for thermal management, thermal storage, water harvesting, metallic additive manufacturing, and droplet interactions with biological and natural systems.

Assistant Professors

Sang-Hoon Bae

Assistant Professor, Mechanical Engineering & Materials Science
PhD, University of California, Los Angeles

Professor Bae's research group focuses on tackling the challenges in materials science with thermodynamics, kinetics, and solid-state physics.

Matthew Bersi**Christopher Cooper**

Assistant Professor, Energy, Environmental & Chemical Engineering
PhD, Stanford University

Christopher Cooper's research at WashU focuses on using dynamic polymers to create responsive, soft materials for applications in energy storage, environmental sustainability, and human health. Through advanced synthesis and characterization, his research group designs polymers with distinct molecular designs and reversible bonds for applications including wearable or implantable electronic devices, recyclable underwater adhesives, soft actuators, and upcycling of industrial plastics. Cooper has published more than 15 peer-reviewed journal articles and given numerous conference presentations and invited talks.

Francisco Lagunas Vargas**Mark Lawrence**

Assistant Professor, Electrical & Systems Engineering
PhD University of Birmingham

Professor Lawrence and his lab are harnessing breakthroughs in nanoscale engineering to push the limits of light-based technologies, targeting applications ranging from all-optical computing and quantum communication to metrology and biosensing.

Kelly Powderly

Assistant Professor of Chemistry
PhD, Princeton University

The Powderly Group seeks to develop and utilize new synthetic pathways to discover extended solids with magnetic, electronic, and non-trivial topological properties of interest in quantum information science and to explore new fundamental bonding in materials.

Sheng Ran

Assistant Professor, Physics
PhD, Iowa State University

Professor Ran's research aims to realize and understand exotic states of quantum materials using combined techniques of bulk crystal synthesis, electric and thermal transport measurements under extreme temperature, pressure and magnetic field conditions, and neutron and high-energy X-ray scattering.

Xi Wang

Assistant Professor, Physics
PhD, Florida State University

Xi Wang's lab utilizes cutting-edge magneto optical and optoelectronic microscopy and spectroscopy to probe and control excitons, electrons, phonons, magnons, and so on in quantum materials for applications in quantum simulation and quantum communication.

Chong Zu

Assistant Professor, Physics
PhD, Tsinghua University

Professor Zu's research interests lie at the interface between atomic, molecular, and optical physics; condensed matter physics; and quantum information.

Degree Requirements

To earn a PhD degree, students must complete the requirements of the McKelvey School of Engineering, along with program-specific requirements. Courses include the following:

- Four IMSE Core Courses (12 units)

Code	Title	Units
MEMS 5610	Quantitative Materials Science & Engineering	3
MEMS 5619	Thermodynamics of Materials *	3
<i>Hard Materials Track:</i>		
MEMS 5620	Kinetics of Materials	3
CHEM 5620	Solid-State and Materials Chemistry *	3
	or PHYSICS 5072 Solid State Physics	
<i>Soft Materials Track:</i>		
MEMS 5608	Introduction to Polymer Science and Engineering	3
MEMS 5614	Polymeric Materials Synthesis and Modification	3

* EECE 5020 Advanced Thermodynamics in EECE may be taken instead with permission of the Director of Graduate Studies.

- Three courses (9 units) from a preapproved list of Materials Science & Engineering electives
- IMSE 8991 IMSE First-Year Research Experience (6 units)
- A minimum of three graduate-level technical elective courses (9 units) in mathematics or any science or engineering department, to reach a total of at least 36 academic credit units
 - A maximum of 3 units of IMSE Journal Club will be permitted toward this requirement.
 - Any 4000-level courses not included on the preapproved list of Materials Science & Engineering electives must be approved by the Graduate Studies Committee.
- A maximum of 12 units of 4000-level courses may be applied toward the required 36 academic credit units. Undergraduate-only courses (below the 4000 level) are generally not permitted and may not be used to fulfill this requirement.
- IMSE 8997 IMSE Graduate Seminar every semester of full-time enrollment
- 18 to 36 units of IMSE 8998 Doctoral Research (Students must identify an IMSE faculty member willing and able to support their dissertation research on a materials-related topic.)
- Students must maintain a grade point average of at least 3.0 for all graded courses and have no more than one grade of B– or below in a core course or a Materials Science & Engineering elective.

Additional program requirements include the following:

- Pass the IMSE Qualifying Examination (oral and written components).
- Identify an IMSE graduate program faculty member willing and able to support the student's dissertation research on a materials-related topic.
- Maintain satisfactory research progress on a topic in materials science and engineering, as determined by the dissertation advisor and the mentoring committee.
- Successfully complete research ethics training by the end of the third semester.
- Successfully complete MTE requirements by the end of the third year.
- Successfully complete the dissertation proposal and presentation, with approval from the dissertation examination committee.
- Successfully complete and defend a PhD dissertation, with final approval from the dissertation examination committee.

Failure to meet these requirements will result in dismissal from the program.

Recommended Course Plan

Year 1

Fall Semester

- IMSE 8997 IMSE Graduate Seminar
- IMSE 8991 IMSE First-Year Research Experience
- MEMS 5610 Quantitative Materials Science & Engineering
- MEMS 5619 Thermodynamics of Materials
 - IMSE will allow EECE 5020 Advanced Thermodynamics in EECE in place of MEMS 5619 Thermodynamics of Materials with permission of the Director of Graduate Studies.
- Hard Materials Track: CHEM 5620 Solid-State and Materials Chemistry
 - An elective may be chosen if the student is taking PHYSICS 5072 Solid State Physics in the spring.
- Soft Materials Track: MEMS 5608 Introduction to Polymer Science and Engineering

Spring Semester

- Begin dissertation research
- IMSE 8997 IMSE Graduate Seminar
- IMSE 8991 IMSE First-Year Research Experience
- Hard Materials Track: MEMS 5620 Kinetics of Materials
- Soft Materials Track: MEMS 5614 Polymeric Materials Synthesis and Modification
- Elective

Summer

- Prepare for IMSE Qualifying Examination (typically taken in August):
 - Written document and oral presentation on research rotation
 - Oral examination on fundamentals from core courses

Years 2 and Beyond

- Complete remaining electives (discuss with dissertation advisor)
- IMSE 8997 IMSE Graduate Seminar
- IMSE 8998 Doctoral Research
- Teaching requirements (to be completed by the end of the third year):
 - Attend two McKelvey preparatory engagement workshops.
 - AI two times at 10 MER units for a total of 20 units.
- Regular meetings (at least once per year) with the mentoring committee
- Dissertation proposal and presentation (fifth semester)
- Dissertation and oral defense

Mentored Experience Implementation Plan

As part of their degree requirements, PhD students must complete a program-defined Mentored Experience Requirement (MER) as per these guidelines. The Mentored Experience Implementation Plan (MEIP) is the written articulation of a program-defined degree requirement for PhD students to engage in mentored teaching activities and/or mentored professional activities, collectively referred to as the *MER*.

Mentored Experience Requirement (MER)

Philosophy of Teaching

Materials scientists and engineers work at the interface between the fundamental physical sciences and application-oriented disciplines. As such, they often need to translate between underlying physical principles governing the performance of a material and the design requirements of a system or device. This translation is inherently two-way; the emergent properties of novel materials enable new, potentially transformative applications, and new devices often require materials with unique (and challenging) property profiles. To facilitate this two-way translation, our PhD graduates must be able to communicate both fundamental and applied concepts to a variety of audiences, including supervisors, subordinates, clients, and co-workers, whose familiarity with the MSE field may range from novice

to expert. Moreover, mentored teaching experiences instill a sense of responsibility, professionalism, and ethical conduct, preparing students to navigate the complex landscape of academia, industry, government, or other research-oriented sectors with confidence and integrity.

Preparatory Engagement

Preparatory Engagement activities are those that represent an introduction to the foundational skills associated with teaching or communication. Pedagogical preparation engagement activities are normally completed before students are permitted to engage in assisting or teaching in a classroom.

Two preparatory workshops are required:

1. McKelvey Teaching Orientation (Canvas Course)
2. McKelvey Teaching Workshop (Canvas Course)

Mentored Teaching Experiences (MTEs)

Assistant in Instruction (AI)

An Assistant in Instruction (AI) is a PhD student who is directly engaged in the organization, instruction, and/or support of a semester-long course *primarily taught by a faculty member*. An AI receives mentorship from a faculty member related to best practices in classroom engagement, instruction in the field, interpersonal engagement, and other relevant skills. Students and mentors complete a mentorship plan prior to the start of each AI experience. To complete each AI assignment and to ensure that it applies toward their degree requirements, students must register for the appropriate course number for each semester of engagement. Refer to the "Required Pathways for Completion" section below for course numbers and details.

Students will AI two times at 10 MER units for a total of 20 units. Students work with their graduate supervisor on the timing and content of those assignments.

Required Pathways for Completion

Students work with their faculty mentor and their Director of Graduate Studies to plan how and when they will complete their MER. Students register during the normal registration period for courses in accordance with one of these approved pathways.

- Preparatory Engagement

EGS 8010	Take two times



Interdisciplinary Opportunities

Washington University offers courses through interdisciplinary programs that include studies in a variety of disciplines that cross traditional academic boundaries and support academic areas outside of the schools.

- **Interdisciplinary Courses**

Graduate students can speak with their advisors with regard to enrolling in individual courses available outside of their school that may advance their research or professional goals. An internal tuition agreement valid across the university's graduate and professional schools enables interdisciplinary study by allowing enrollment in classes outside of the student's home school. Many undergraduate and graduate courses are available for graduate student enrollment, subject to the following eligibility guidelines:

- The student must be enrolled full-time in a graduate degree program and have the approval of their faculty advisor or administrative officer to take a course outside of their home school.
- Courses will be open to students outside of the discipline only if those students have met the required prerequisites and have the approval of both their department/advisor and the course instructor.
- Finally, courses and students in part-time or "continuing" programs, including WashU Continuing & Professional Studies, are not part of this agreement. Courses that require individualized instruction and/or additional fees (e.g., independent studies, individual music lessons) are also excluded.

- **Teaching Citation — Center for Teaching and Learning**

The Teaching Citation is a professional-development program open to Washington University graduate students. The purpose of the program is to provide formalized pedagogical training to help graduate students prepare for careers that involve teaching. Graduate students who complete the program will participate in a learning community in which they will 1) develop knowledge of effective pedagogy, including evidence-based teaching methods, by completing one Foundations in Teaching and five advanced-level CTL workshops, 2) gain expertise with varied teaching methods by documenting three qualifying teaching experiences, and 3) develop, reflect on, and refine on their teaching approach by writing an engaging teaching philosophy statement.

Documenting one's teaching experience includes demonstrating that the required number of teaching hours have been met, attaining faculty or CTL observation and student feedback on one's teaching activities, and writing a self-reflection. The qualifying teaching experiences that can be counted toward the Teaching Citation include, for example, include leading a weekly discussion or recitation subsection, leading regular review- or help-sessions, presenting course lectures, teaching a course independently, and mentoring a student in a research project. Teaching experiences must be approved by CTL staff.

- A limited opportunity for some Washington University students to enroll in courses at Saint Louis University and the University of Missouri–St. Louis is available through the Inter-University Exchange Program (p. 535).
- The Skandalaris Center (p. 536) offers cocurricular programming and practical, hands-on training and funding opportunities to students and faculty in all disciplines and schools.
- The McDonnell International Scholars Academy (p. 538) is an endowed fellowship program that offers generous financial support toward graduate and professional degree studies at Washington University in St. Louis.

Inter-University Exchange Program

The Inter-University Exchange (IE) program between Washington University, Saint Louis University (SLU), and the University of Missouri–St. Louis (UMSL) began in 1976 as an exchange agreement encouraging greater inter-institutional cooperation at the graduate level. Over time, this program has evolved to include undergraduate education. The basic provisions of the original agreement are still in place today, and participation continues to be at the discretion of each academic department or unit.

At Washington University, there are several schools that *do not participate* in this program (i.e., degree-seeking students in these schools are not eligible to participate in the IE program, and courses offered in these schools are not open to SLU and UMSL students attending Washington University through the IE program). They are the School of Law, the School of Medicine, the McKelvey School of Engineering, and the School of Continuing & Professional Studies. The Washington University schools that are open to participation in the IE program may have specific limitations or requirements for participation; details are available in those offices.

The following provisions apply to all coursework taken by Washington University students attending SLU or UMSL through the IE program:

- Such courses can be used for the fulfillment of degree or major requirements. (Students should consult with their dean's office for information about how IE coursework will count toward their grade-point average, units and major requirements.)
- Such courses are not regularly offered at Washington University.
- Registration for such courses requires preliminary approval of the student's major/department advisor, the student's division office or dean, and the academic department of the host university.
- Students at the host institution have first claim on course enrollment (i.e., a desired course at SLU or UMSL may be fully subscribed and unable to accept Washington University students).
- Academic credit earned in such courses will be considered as resident credit, not transfer credit.

- Tuition for such courses will be paid to Washington University at the prevailing Washington University rates; there is no additional tuition cost to the student who enrolls in IE coursework on another campus. However, students are responsible for any and all fees charged by the host school.
- Library privileges attendant on enrolling in a course on a host campus will be made available in the manner prescribed by the host campus.

Instructions

Washington University students must be enrolled full-time to participate in the IE program and have no holds, financial or otherwise, on their academic record at Washington University or at the host institution.

1. The student must complete the IE program application form. Forms are available from the Office of the University Registrar website.
2. The student must provide all information requested in the top portion of the form and indicate the course in which they wish to enroll.
3. The student must obtain the approval signature of the professor teaching the class or the department chair at SLU or UMSL, preferably in person.
4. The student also must obtain the approval signatures of their major advisor at Washington University and the appropriate individual in their dean's office.
5. Completed forms must be submitted to the Office of the University Registrar in the Women's Building a minimum of one week before the start of the term.

Course enrollment is handled administratively by the registrars of the home and host institutions. Washington University students registered for IE coursework will see these courses on their class schedule and academic record with the subject codes SLU and UMSL. Final grades are recorded when received from the host institution. The student does not need to obtain an official transcript from SLU or UMSL to receive academic credit for IE coursework at Washington University.

Contact: Office of the University Registrar
Phone: 314-935-5959
Email: registrar@wustl.edu
Website: <http://registrar.wustl.edu/student-records/registration/the-inter-university-exchange-program>

Skandalaris Center for Interdisciplinary Innovation and Entrepreneurship

The Skandalaris Center for Interdisciplinary Innovation and Entrepreneurship is the hub of creativity, innovation, and entrepreneurship at Washington University. We believe everyone can be entrepreneurial. Skandalaris provides programming where anyone can explore their creative and entrepreneurial interests, develop an entrepreneurial mindset, and go from ideation to launch.

Mission

The Skandalaris Center fosters and empowers an inclusive community that finds opportunities in problems and transforms ideas into action. We build an ecosystem of education, research, and resources that engages all WashU students, faculty, alumni, and staff as entrepreneurial leaders and collaborators.

Who We Serve

We work with the best and brightest at WashU — the change-makers, thought leaders, and visionaries — to solve the world's problems and meet local needs through innovation and entrepreneurship. As an interdisciplinary center, our initiatives serve students, faculty, staff, and alumni from all levels and disciplines.

Our Initiatives

We develop programs for WashU entrepreneurs, creatives, innovators, and scholars. Our commitment to interdisciplinary innovation and entrepreneurship is motivated by the following beliefs:

- *Everyone can be creative.* We provide hands-on experiences and the creative means to solve problems.
- *Innovation is the backbone of entrepreneurship.* Our opportunities are designed to develop and share new ideas while connecting with other WashU entrepreneurs and innovators.
- *Good ideas are one opportunity away from success.* Our programs are created to help WashU entrepreneurs and innovators access the resources they need to take their ideas to the next level.
- *Knowledge and skills are key to innovation and entrepreneurship.* Our Center offers events and opportunities to help our community of WashU entrepreneurs, creatives, and innovators learn the ins and outs of innovation and entrepreneurship.

Programs and Resources

- **Experts on Call**

This program provides an opportunity for the WashU community to connect with experts in the Skandalaris Center or remotely, free of charge.

- **Honors in Innovation & Entrepreneurship**

Students who have shown exemplary involvement in innovation and entrepreneurship during their time at Washington University are recognized through this program. Honors are earned by accumulating points through a combination of curricular and cocurricular activities.

- **In-Residence Program**

This program provides WashU students, faculty, staff, and alumni with the opportunity to learn from and work with professionals with extensive industry experience.

- **PhD Citation in Entrepreneurship**

This program provides opportunities for PhD students who are interested in developing skills and experiences in the areas of entrepreneurship and innovation.

- **Pivot 314 Fellowship**

The Pivot 314 Fellowship is a year-long program presented by the Office of the Provost and the Skandalaris Center for Interdisciplinary Innovation and Entrepreneurship. Pivot 314 offers graduate students curated programming focused on professional development and on strengthening leadership and communications skills, as well as internship opportunities.

- **Resources**

The Skandalaris Center, Washington University, and external services and resources are available to support innovators and entrepreneurs.

- **Skandalaris Spaces**

Our collaboration space is available for hosting meetings or events. Requests should be made a week in advance.

- **Skandalaris Startup Webinars, Panel Discussions, and Workshops**

These webinars provide an exciting way for alumni to reconnect and share their experiences with entrepreneurship. We also offer free, noncredit workshops designed to encourage creativity, innovation, and entrepreneurship.

- **Startup Venture Promotion**

The Skandalaris Center is happy to help Washington University in St. Louis students, faculty, staff, and alumni with promoting their startup ventures.

- **Student Enterprise Program (StEP)**

StEP provides a unique opportunity for students to own and operate a business on campus that serves the WashU community. Student owners can supplement the valuable business and entrepreneurial skills they learn in the classroom while gaining real-world experience as they manage and lead their own businesses.

- **Student Groups**

There are many organizations that allow students to gain experience and make valuable interdisciplinary connections in the areas of creativity, innovation, and entrepreneurship.

- **Venture Development**

The WashU community is invited to set an appointment with a member of our team for help with ideas and businesses at any stage. We will work with these individuals to brainstorm ideas, strengthen financial models, draft business plans, perfect pitches, and more.

- **Washington University Entrepreneurship Courses**

Courses in entrepreneurship offered across the university are available to students at all levels and in all disciplines.

Competitions

- **IdeaBounce[®]**

IdeaBounce[®] is both an online platform and an event for sharing venture ideas and making connections. This is an opportunity for participants to pitch their ideas (no matter how "fresh"), get feedback on them, and make connections. In-person events happen frequently throughout the fall and spring semesters.

- **Skandalaris Venture Competition (SVC)**

The SVC provides expert mentorship to new ventures and startups to ready them for commercializing their ideas, launching, and pitching to investors. Teams will develop materials focused on explaining the ideas that they are working on to a broad audience.

- **Who Can Apply:** Current Washington University students and alumni (within one year of graduation) with an early-stage venture or idea
- **Award:** Up to \$22,500

- **Global Impact Award (GIA)**

The GIA awards WashU-affiliated ventures with inventions, products, ideas, and business models that will have a broad and lasting impact on society.

- **Who Can Apply:** WashU students, postdocs, residents, and alumni who have graduated within the last 10 years
- **Award:** Up to \$50,000

Learn More

Please contact the Skandalaris Center to sign up for our newsletter and for additional information about all programs.

Phone:	314-935-9134
Email:	sc@wustl.edu
Website:	http://skandalaris.wustl.edu

McDonnell International Scholars Academy

The McDonnell International Scholars Academy graduate fellowship program at WashU is dedicated to fostering a dynamic community of scholars chosen based on their ability to emerge as leaders and experts in their fields. The McDonnell Academy offers curated programming that includes a leadership seminar, cohort trips, and presentation skills development. This multifaceted approach cultivates leaders who embrace a global outlook and help drive positive change in their communities and beyond.

The McDonnell Academy provides both financial and programmatic support to enrich the WashU graduate experience. Meaningful participation and engagement are key components of the program. For more information about program benefits, eligibility, and admissions, please visit the Admissions page of the McDonnell International Scholars Academy website.

Website: <https://mcdonnell.wustl.edu/>

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