



Washington University in St. Louis

UNIVERSITY COLLEGE IN ARTS & SCIENCES

Continuing Education, Professional Studies & Summer School in Arts & Sciences

2014–2016 BULLETIN

WELCOME TO UNIVERSITY COLLEGE

University College is the evening, continuing education, and professional studies division of Arts & Sciences at Washington University in St. Louis. The mission of University College is to draw upon the resources of the university to provide continuing adult education of the highest quality to the St. Louis region through programs in the liberal arts, in professional preparation, and in lifelong learning. Beginning as University Extension in 1908 and named University College in 1931 when the first degrees were offered in Education and Journalism, the division now hosts a rich, diverse, and ever-evolving range of choices and formats for continued study and lifelong learning throughout the academic year and summer, including courses for career development and personal growth, undergraduate and graduate degrees, industry-targeted certificate programs, online, hybrid, and accelerated courses, and noncredit study options. And its audiences range from high-school students to older adults. Excellence and rigor in teaching and learning remain the hallmarks of a University College education. Additionally, University College courses and programs of study are innovative, accessible, and affordable in response to student, industry, and community needs. Reflecting the rich tradition of a great university and responding to the opportunities and challenges of a rapidly changing world, University College represents the very best in both liberal and professional education.

Accreditation and Professional Affiliations

Washington University is accredited by the North Central Association of Colleges and Secondary Schools, and is a member of the Association of American Colleges and Universities, the College Board, the American Council on Education, and the Independent Colleges and Universities of Missouri. University College is a member of the Association for Continuing Higher Education, the University Professional and Continuing Education Association, and the Association of Graduate Liberal Studies Programs. Undergraduate and graduate degree and certificate programs offered by University College are offered through Arts & Sciences at Washington University in St. Louis. Business-related programs in University College are not accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

WASHINGTON UNIVERSITY POLICY

Washington University encourages and gives full consideration to all applicants for admission, financial aid, and employment. The university does not discriminate in access to, or treatment or employment in, its programs and activities on the basis of race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information. Inquiries about compliance should be addressed to the university's Vice Chancellor for Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, MO 63130.

How to Use the Bulletin

The text in this Bulletin has the status of policy which remains in effect through June 30, 2016. Specific requirements and policies for each degree and certificate program are also noted on the University College website, ucollege.wustl.edu. University College reserves the right to change policies and program requirements, and will post changes on the University College website. Students are required to satisfy all degree, major, and other program requirements as published in the Bulletin and on the University College website at the date of admission to a University College program of study, with a 10-year statute of limitations. If any changes are made to degree, major, and other program requirements prior to June 30, 2016, and noted on the University College website, students who have been admitted to a program of study prior to these changes being made may retain the requirements associated with the original program as printed in the Bulletin or, with University College authorization, may make appropriate changes to their original program of study in order to adapt to newer requirements. Students admitted to a program of study after program changes are made are required to meet the new requirements, and not the original requirements as posted in the Bulletin. If a student has been away from University College for 10 or more years and the original degree or major is no longer offered, the student must select a new, currently offered major and program of study. If a student has been away from University College for 10 or more years and the original degree or major is currently offered but has changed, University College will first review the requirements associated with the original program and, in consultation with the student and relevant academic departments, select degree and major requirements, including appropriate course substitutions from either the original or current program.

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GRADUATE PROGRAMS

University College administers the Doctor of Liberal Arts, Master of Liberal Arts, Master of Arts, and Master of Science, in coordination with the Graduate School of Arts & Sciences. University College administers the Master of Science in Clinical Research Management in coordination with Washington University School of Medicine. University College also offers a range of graduate-level certificate programs. See page 28 for more information about certificate programs.

To earn the Doctor of Liberal Arts degree at Washington University, a student must complete 45 credit hours after earning a relevant master's degree, pass a written and oral comprehensive examination, and write and defend a thesis. Please see page 3 for a more detailed description of the Doctor of Liberal Arts.

Master's degree programs in University College consist of 30–36 units of graduate-level course work including, in some cases, a six-unit master's thesis or a three-unit directed research project. Please see pages 3–9 for more detailed descriptions of master's degree programs.

Normally, up to six units of related graduate-level study, with a grade of B or higher, may be transferred to a graduate program. All other course work must be taken at Washington University. Only courses taken for a letter grade may be applied to a graduate program of study. Courses taken as Pass/Fail or Audit will not count toward a graduate program of study.* Grades below C- will not count toward a graduate degree program of study. Students must maintain a cumulative grade point average of 3.0 to be eligible to receive a graduate degree. Please visit the University College website, ucollege.wustl.edu, or call (314) 935-6700 for more detailed information, requirements, and policies concerning specific graduate degree programs. Please see How to Use the Bulletin on page 1 of this Bulletin concerning program requirements and changes.

*See note on page 8 concerning P/F credit from Olin Business School.

Admission

Admission to the Doctor of Liberal Arts program is extremely competitive. Candidates must already hold a master's degree in a relevant subject from an accredited institution of higher learning. The application deadline is April 1. Please see page 3 and the University College website (ucollege.wustl.edu) for more detailed admissions requirements and information about the Doctor of Liberal Arts.

Admission to master's degree programs is competitive and open on a selective basis to qualified individuals who have earned a baccalaureate degree. University College and the Graduate School of Arts & Sciences review completed applications and make admissions decisions on a rolling basis for master's degree programs. The process typically takes four to six weeks. Accordingly, master's degree applicants should submit materials according to the following schedule in order to ensure a timely decision: mid-November for spring; mid-April for summer; mid-July for fall. Please visit the University College website (ucollege.wustl.edu) for additional program-specific admission requirements.

University College Offers Graduate Degrees in the following areas:

- ◆ Doctor of Liberal Arts (DLA)
- ◆ Master of Arts in American Culture Studies (AM)
- ◆ Master of Arts in Biology (AM)
- ◆ Master of Arts in Education (MAEd)
- ◆ Master of Arts in Human Resources Management (AM)
- ◆ Master of Arts in International Affairs (AM)
- ◆ Master of Arts in Nonprofit Management (AM)

- ◆ Master of Arts in Statistics (AM)
- ◆ Master of Liberal Arts (AM)
- ◆ Master of Science in Biology (MS)
- ◆ Master of Science in Clinical Research Management (MS)

AM, MAEd, and MS in Biology conferred by the Graduate School of Arts & Sciences. MS in Clinical Research Management conferred by University College.

Doctor of Liberal Arts

Today's culture is both rich and varied. Every moral, social, political, and cultural question one faces demands the broadest consideration, drawing from the multiplicity of methods and perspectives nurtured and cultivated in the many disciplines of a great university. The Doctor of Liberal Arts is designed for the experienced adult learner who wishes to pursue such interdisciplinary study with deep opportunities for independent, scholarly reading and research. Students practice and cultivate interdisciplinary skills, intellectual habits, analytical and critical reasoning, effective writing, and broad-based decision-making.

Degree Requirements

To earn the Doctor of Liberal Arts degree, a student must complete 45 credit hours after earning a relevant master's degree, pass written and oral comprehensive examinations, and write and defend a thesis. There are 36 units of graduate course work, including two required DLA seminars, five concentration courses, and five elective courses. Students choose among four interdisciplinary concentrations to focus their studies: Textual Traditions, Historical Context, Visual Culture, or Global Perspectives. The DLA thesis (nine units) emphasizes original interpretation and synthesis.

Master of Arts in American Culture Studies

The Master of Arts in American Culture Studies addresses the intellectual and moral questions of American identity and belonging that no single disciplinary perspective can comprehensively and satisfyingly resolve. What does it mean to live and work in an American culture devoted to individual success and autonomy and at the same time be a citizen of a nation devoted to collective needs and well-being? The program provides the training, both in specific disciplines and in cross-disciplinary conversations, to help you answer important questions about American society. It also introduces some of the social, political, and cultural issues that have shaped American culture and identity. Most fundamentally, it provides a critical skill set that fosters analysis of an array of cultural objects—a place, an event, a work of art, a political institution—from a rich and diverse foundation of knowledge and perspectives. Studies culminate in a self-directed project that allows students both to explore an area of personal interest and participate in a multidisciplinary scholarly community. Part of the excitement of this kind of learning is the opportunity to engage in creative or rigorous exchange with the faculty in the humanities and social sciences at Washington University, and with leading practitioners in the St. Louis professional and policy world.

Degree Requirements

The Master of Arts in American Culture Studies is a 30-unit program in which students take a minimum of two courses in each of the following distribution areas:

- Humanities courses from literature, history, religion, or philosophy
- Social Sciences courses from anthropology, education, economics, or political science
- Arts courses from music, art history, or theater/film

The course “Introduction to American Culture Studies” is recommended for all students. Remaining electives are drawn from course work in different aspects of American culture.

Master of Arts in Biology

The Master of Arts in Biology helps students update science knowledge; pursue a specialty such as biotechnology, ecology, neurobiology, or genetics; prepare for employment in emerging science fields; improve professional standing; or deepen understanding of biology. Designed to be adaptable to individual students’ unique backgrounds and goals, the program provides a flexible curriculum and close individual advising for each student.

Degree Requirements

Students seeking the Master of Arts in Biology must satisfactorily complete 30 units of graduate course work in the biological sciences, including a required capstone experience—either a three-unit capstone course or a six-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.

Master of Arts in Education

Washington University’s Department of Education offers a part-time Master of Arts in Education on an Analysis of Practice for practicing educators in a variety of settings. This Analysis of Practice allows educators to consider multiple and enhanced approaches for data collection, analysis, and reflection on educational issues involving educational assessment data, video microanalysis, learning sciences research, and educational foundation concepts. The MAEd degree program offers three strands of study: Professional Development, Science Education (elementary and middle school), and Innovative Certification. All three strands require students to complete the core course work with a culminating portfolio project.

Degree Requirements

Every MAEd student must complete 13 credit hours of required core courses. The balance of the credits required to obtain the MAEd (30 credits minimum) is composed of work within one of the three strands. Requirements may differ for those in the Innovative Certification strand.

Program Core Course Work—13 units

U08 4023 Second-Language Acquisition and Technology or other learning-related course (in Linguistics, Psychology, or equivalent area)

U08 4610 Introduction to Educational Tests & Measurements **OR**
U08 4890 The Science & Politics of Testing

Foundations of Education elective, chosen among the following:

U08 453B Sociology of Education

U08462 Politics of Education

U08 4621 Political Economy of Urban Education

Or other relevant elective from Education, Social Work, Law, or Political Science

U08 4033 Video Microanalysis

U08 516 MAEd Portfolio Presentation (1 credit)

Strands of Study

Each student must complete the designated credit hour requirement within the chosen strand of study, with a minimum of 30 total credits required to graduate.

Strand 1: Professional Development—17 units

Strand 2: Elementary/Middle Science Education—18 units

Strand 3: Innovative Teacher Certification—30–54 units

For more information on the Master of Arts in Education, or on Teacher Certification in Elementary, Middle, and Secondary School, visit the University College website (ucollege.wustl.edu).

Master of Arts in Human Resources Management

Human resources managers are an integral part of the leadership team charged with directing complex organizations and a diverse workforce. Managing people and organizations requires both functional skills in human resources as well as expertise in strategic planning and organization development. The Master of Arts in Human Resources prepares individuals in a variety of employment settings to join other organizational leaders at the table of decision makers. The Master of Arts in Human Resources Management provides students with skills and information in key operational areas such as human relations and communications, compensation and benefits, training and development, employee and labor relations, and staffing and retention. Additionally, the program teaches professionals how to contribute to organizational development, change, risk management, and strategic planning.

Degree Requirements

The Master of Science in Human Resources Management consists of 36 units of graduate course work comprising 18 units of core courses, including:

U87 559 Strategy Formation and Organizational Effectiveness

U87 506 21st-Century Perspectives on Organization and Human Resources

U87 520 Organizational Behavior

U87 582 Principles of Finance

U87 558 Human Resources Metrics

U87 514 Integrative Capstone Project for Human Resources

Additionally, students are required to take a minimum of six units of additional course work in each of two professional areas: Professional and Human Resources Management, and Management and Organizational Development.

University College also offers a Graduate Certificate in Human Resources Management (see page 34).

Master of Arts in International Affairs

Living and working in a rapidly changing global environment presents great risks and opportunities. The world's heightened economic and political interdependence also generates serious challenges in areas such as social justice, diversity, international security, sustainable development, resource distribution, technology, and human rights. Moreover, rising nationalism and complex ethnic and religious tensions pose ongoing challenges while they also invite strategies for compromise and cooperation. The Master of Arts in International Affairs is an interdisciplinary program that addresses these complex issues and related questions from multiple perspectives, drawing on the teaching expertise of both Washington University faculty and experienced practitioners in the St. Louis region.

The Master of Arts in International Affairs provides knowledge, skills, and resources for understanding complex global issues and generating potential solutions to some of the most difficult international and cross-cultural problems of today. In addition to studying topics such as international business, trade, human rights, economic development, and international security, students explore how different regions of the world respond to and shape current events. Students also examine how transformations in media and communication impact international affairs. The program provides depth and breadth of topical coverage together with skills in research methodology. Additionally, students may focus their studies in three optional areas of concentration: Global Economics, Business, and Finance; Global Development, Environment, and Sustainability; and Global Politics, International Relations, and Conflict Management. Whether studying full time or part time, a wide range of on-campus and online courses make it possible for students to shape their degree according to their interests and schedules.

Degree Requirements

The Master of Arts in International Affairs is a 30-unit program that includes one required course (Current Issues in International Affairs, Methods), two area studies courses that focus on specific regions (East and Southeast Asia; Europe and Russia; Latin America; Africa; and the Middle East), and a capstone research project. The program also offers

three optional areas of concentration: Global Economics, Business, and Finance; Global Development, Environment and Sustainability; and Global Politics, International Relations, and Conflict Management. In addition to the 30 units required for program completion, students are required to demonstrate reading knowledge in a modern foreign language.

Master of Arts in Nonprofit Management

The Master of Arts in Nonprofit Management addresses the challenges and opportunities that mission-driven organizations face today in areas such as succession planning, volunteerism, resource development, and competitive funding. Drawing on experienced practitioners in the St. Louis area, this program provides skills and resources for leading mission-driven organizations as productive examples of social entrepreneurship. Grounded in the historical context of nonprofit management and philanthropy, the program teaches skills in all operational areas of nonprofit management, including financial management, law, grantwriting, volunteer management, resource development, research and statistical analysis, and marketing communications. At the strategic level, the program teaches leadership, organization development, strategic planning, marketing communications, and the skills of social entrepreneurship.

Degree Requirements

The Master's Degree in Nonprofit Management consists of 36 units of graduate course work covering all aspects of nonprofit administration and management in a combination of nonprofit and human resources management courses, of which 27 units are required:

U76 520 Organizational Behavior and Administration

U76 507 Management in Nonprofit Organizations

U76 508 Resource Development for Nonprofit Organizations

U76 510 Statistics and Research Design

U76 521 History and Development of the Nonprofit Sector

U76 531 Human Resources Management

U76 525 Financial Management in Nonprofit Organizations

U76 570 Legal Issues Impacting Nonprofit Organizations

U76 514 Integrated Capstone Project in Nonprofit Management

The remaining course work is comprised of nine units of nonprofit-related electives.

Master of Liberal Arts

Today's culture is both rich and varied. Every moral, social, political, and cultural question one faces demands the broadest consideration, drawing from the multiplicity of methods and perspectives nurtured and cultivated in the many disciplines of a great university. The Master of Liberal Arts provides the chance to practice the methods of interdisciplinary inquiry that are the hallmark of a rigorous liberal arts education. As a student in the program, one can explore questions of identity through art, literature, and religion; analyze the politics of race in fiction, historical documents, the visual arts, and music; debate ethical choices presented by fiction writers, jurists, philosophers, and scientists from antiquity through the present. Students examine literary, artistic, and cinematic masterpieces; historic moments of discovery and change; traditions of thought; cultural differences; and civic responsibilities. They sharpen their thinking about contemporary values and choices through courses that ask them to reflect on an individual's relation to society; on technology and the spread of ideas; on challenges to freedom; and on inspiration and creativity.

Degree Requirements

Planned and taught by full-time Washington University faculty, the core interdisciplinary seminars cover a wide variety of topics and make it possible for a student to pursue one of four optional concentrations:

- Literary and Historical Studies
- Philosophy, Religion, and Ethical Studies
- Visual Culture, Arts, and Media Studies
- Science, Technology, and Culture

Most core seminars are held one evening a week during the fall and spring semesters and twice a week during the summer term. Some students take

all 30 hours of the degree in the seminars that are designed specifically for the MLA program; others augment a particular interest by taking related courses drawn from different departments. At the end of the program, every student does an independent project mentored by a faculty.

Master of Science in Biology

The 30-unit Master of Science in Biology, designed for middle and secondary school teachers, integrates current research in life sciences and education to demonstrate the importance of scientific issues to the global community. The two-year program, designed to fit the schedules of working teachers, includes two summer institutes, three weeks each, in residence at Washington University, along with online course work during the academic years. For more information on the Master of Science in Biology visit the University College website (ucollege.wustl.edu).

Master of Science in Clinical Research Management

The Master of Science in Clinical Research Management is designed for experienced professionals working in academic research centers or private industry who seek to extend their knowledge or advance their career. The program addresses both the science of clinical research through topics such as epidemiologic principles and tools, research design, ethical issues, and data analysis, as well as the business of clinical research through topics such as regulatory requirements, product development, and grant funding and manuscripts. Experienced health science or related business professionals will update their skills, strategies, and resources for developing and managing products, treatment protocols, and other processes associated with clinical research and patient care. With the Master of Science in Clinical Research Management, students will prepare for leadership positions in academic and health care research centers or related private sector organizations, such as the pharmaceutical, diagnostic, and medical device industries. Instructors are drawn from the full- and part-time faculty of the Washington University School of Medicine and professionals in related areas and industries.

Degree Requirements

The Master of Science in Clinical Research Management is a 30-unit program, including 24 units of required course work and six units of authorized electives.

Required Courses—24 units

- U80 500 Fundamentals of Clinical Research Management
- U80 512 Advanced Data and Information Management in Health Sciences
- U80 515 Medical Writing for Clinical Research
- U80 518 Drug and Device Development
- U80 522 Compliance, Legal, and Regulatory Issues
- U80 555 Health Care Reform and Policy
- U80 562 Leadership and Change in Health Care Services
- U80 588 Epidemiology for Clinical Research

University College also offers a Graduate Certificate in Clinical Research Management (see page 28).

Continuing Master's Research Status for Graduate Students

Graduate students who do not complete their final research project (thesis or DRP) during the semester of registration but have completed all other required course work for their degree program are required to register as Continuing Master's Research students in order to maintain candidacy. Continuing Master's Research status cannot be combined with any other course registration and does not qualify students for financial assistance. This registration does not defer student loans or serve as a legal status for international students. It will continue student library access. The Continuing Master's Research is taken for 0 units and is not graded.

Students may continue under this status for up to one calendar year, after which time they will be required to re-register for the appropriate DRP or Thesis course.

Combined Bachelor's/Master's Degree Program

The Combined Bachelor's/Master's Degree Program in University College is designed for motivated, high-achieving students who wish to pursue rigorous and accelerated study leading to completion of both a Bachelor of Science degree awarded by University College and either a Master of Arts or Master of Science in areas of study for which there are degree programs in University College. Bachelor's/Master's students must complete a minimum of 135 units of course work, undergraduate and graduate, including all residency requirements for the Bachelor of Science degree, and at least 30–36 units of graduate course work at the 400- and 500-level. For more information visit the University College website: ucollege.wustl.edu.

Dual and Joint Degree Programs

Qualified students may be eligible to earn two graduate and/or professional degrees at the same time. A “dual” degree program entails the pursuit and completion of two master's degree programs simultaneously. In the case of the dual-degree program, all courses and credit hours must be taken for both programs, and no credit hours are counted toward both degrees. A “joint” program entails the completion of a University College master's degree program along with a master's program offered through another division of Washington University. In the case of the joint degree program, a maximum of six credit hours may be counted toward both degrees. Requests for joint-degree programs are reviewed and authorized on a case-by-case basis. In both dual and joint degrees, students must formally apply for admission to both programs. Joint and dual degrees are normally conferred simultaneously after all requirements for both degrees have been met. For more information about dual- and joint-degree options, please call University College, (314) 935-6700.

Note: University College students may apply a maximum of six units of P/F credit from graduate-level course work in the Olin Business School to a master's degree program in University College. The course work must be authorized by University College and the Graduate School of Arts & Sciences, and the student must have received Pass or High Pass in the Olin course. Courses with grades of Low Pass are not eligible. This policy applies only to courses completed on a P/F basis in the Olin Business School prior to a student's admission to a University College graduate program of study administered by University College and conferred by the Graduate School of Arts & Sciences. Once admitted to a University College program of study, students who are authorized to take courses in Olin and apply them toward their program of study are required to convert P/F to letter grades at the time of registration.

UNDERGRADUATE PROGRAMS

University College awards the Associate in Arts and Bachelor of Science degrees in a wide range of academic subjects and interdisciplinary areas of study. Students also may select courses from many other academic departments and programs at Washington University that do not offer majors or programs of study in University College. Undergraduate certificate programs for professional and personal development are also available. See page 27 of this Bulletin for more information about certificate programs. Please visit the University College website (ucollege.wustl.edu) or call (314) 935-6700 for more detailed information, requirements, and policies concerning specific undergraduate degree and certificate programs. Please see How to Use the Bulletin on page 1 of this Bulletin concerning program requirements and changes.

Admission

The admissions policies and procedures of University College reflect the special circumstances of part-time, adult students and vary by academic program. Students seeking admission to an undergraduate degree or certificate program should meet with an academic advisor in University College to discuss goals prior to submitting an application for admission. Formal admission is required of all students seeking an undergraduate degree or certificate in University College. To be considered for admission, applicants must have a high school diploma or its equivalent and have a minimum 2.7 grade point average in your previous college work. Applicants with less than a 2.7 grade point average in previous college work will be asked to provide other evidence of ability to successfully complete college-level course work, which may include taking several courses prior to formal admission.

Admission requirements for the Associate in Arts degree include a high school diploma or its equivalent; at least six units of transferable college-level course work with a minimum grade point average of 2.7 taken at another accredited institution; or at least six units of course work taken at University College with a minimum grade point average of 2.7.

Admission requirements for the Bachelor of Science degree include a high school diploma or its equivalent; at least 12 units of transferable college-level course work with a minimum grade point average of 2.7 taken at another accredited institution; or at least 12 units of course work taken at University College with a minimum grade point average of 2.7.

Admissions requirements for undergraduate certificate programs vary by program.

For more detailed information about admission requirements for the Associate in Arts and Bachelor of Science degrees, and undergraduate certificate programs, including application forms, please visit the University College website at ucollege.wustl.edu, come to University College located in January Hall Room 20, or call (314) 935-6700.

Associate in Arts Degree

The Associate in Arts (AA) degree provides a framework for understanding the disciplines and skills of a liberal arts degree, a foundation for further study at the bachelor's degree level, and an initial academic credential required for career advancement. Admission requirements for the Associate in Arts degree include a high school diploma or its equivalent; at least six units of transferable college-level course work with a minimum grade point average of 2.7 taken at another accredited institution; or at least six units of course work taken at University College with a minimum grade point average of 2.7.

Degree Requirements

To receive an Associate in Arts degree from University College, students must be admitted to degree candidacy, complete a minimum of 60 units of college-level work with a cumulative grade point average of 2.0 or higher in all courses taken, and satisfy specific writing, course distribution, concentration, and residency requirements. Additionally, students must complete an 18-unit concentration with grades of C- or better in all courses. At least half the units for the concentration must be completed at Washington University. No more than 24 units may be transferred to the degree. The final 36 units of the degree program must be completed at Washington University. The courses completed for the Associate in Arts degree count toward all Bachelor of Science degree programs in University College. For more specific information about Associate in Arts degree requirements and policies, please visit the University College website at ucollege.wustl.edu or call (314) 935-6700.

General Education Requirements

Basic Requirements:

U11 101 Principles of Writing*

U11 203 Critical and Researched Writing*

One 3-unit course in oral presentation**

One 3-unit course in numerical applications with a minimum grade of C- which may be applied to the Mathematics distribution requirements as noted in this section.**

One 3-unit course in moral reasoning, which may be applied to the Social Sciences or Humanities distribution requirements noted in this section.**

One 3-unit course in non-Western culture, which may be applied to the Social Sciences or Humanities distribution requirements as noted below. Courses that satisfy the non-Western culture requirement focus on the study of cultures in societies outside of English-speaking North America and Western Europe, including Africa, East Asia, South Asia, Europe,

Latin America, or the Middle East, and encourage students to explore issues of human diversity within such cultures.**

Additional Basic Requirements for Associate in Arts with concentration in Business and Communication Studies:

- ◆ Microeconomics or Macroeconomics
- ◆ One course in applied mathematics or statistics
- ◆ One course in information technology

Additional Basic Requirements for Associate in Arts with concentration in Global Leadership and Management:

- ◆ Microeconomics or Macroeconomics
- ◆ Economic Statistics
- ◆ Technology for Managers

**Students who receive a grade of C- or lower in U11 101 Principles of Writing taken at University College must repeat the course. Students who receive a grade of C- or lower in U11 203 Critical and Researched Writing taken at University College must, in consultation with the Department of English and University College, choose between two options to satisfy the requirement: 1) repeat the course; or 2) complete a 3-unit composition tutorial with a grade of C or higher. Transfer credit for U11 101 Principles of Writing may be granted for a grade of B or higher. U11 203 Critical and Researched Writing is required of all undergraduate degree candidates, and this course must be taken at Washington University. Students may still receive transfer credit for a second-level basic writing course, however, that will count as elective credit and they still will be required to take U11 203 Critical and Researched Writing. A student who transfers English composition courses from another college or university must consult an academic advisor at University College, who will provide options for completing requirements.*

***See the University College website (ucollege.wustl.edu) for additional details about basic requirements. A single course can count toward any two of the fol-*

lowing categories: 1) concentration; 2) basic requirements for oral presentation, numerical applications, moral reasoning, and non-Western culture; 3) distribution requirements.

Distribution Requirements: 18 units, six units in each area noted below. A maximum of three units from one discipline may apply toward any distribution area.

- ◆ Natural Sciences and Mathematics
- ◆ Social Sciences
- ◆ Humanities

University College offers the Associate in Arts Degree with Concentrations in:

- ◆ Anthropology
- ◆ Clinical Research Management
- ◆ Communications
- ◆ Economics
- ◆ English
- ◆ Global Leadership and Management
- ◆ Health Care
- ◆ History
- ◆ Humanities
- ◆ Industrial and Organizational Psychology
- ◆ International Studies
- ◆ Journalism
- ◆ Mathematics
- ◆ Political Science
- ◆ Psychology

- ◆ Social Sciences
- ◆ Sustainability

Bachelor of Science Degree

Requirements for the Bachelor of Science (BS) degree in University College represent both breadth and depth of study. Admission requirements for the Bachelor of Science degree include a high school diploma or its equivalent; at least 12 units of transferable college-level course work with a minimum grade point average of 2.7 taken at another accredited institution; or at least 12 units of course work taken at University College with a minimum grade point average of 2.7.

Degree Requirements

To receive a Bachelor of Science degree from University College, students must be admitted to degree candidacy; complete a minimum of 120 units of college-level work with a cumulative grade point average of 2.0 or higher in all courses taken; and satisfy basic, distribution, major, and residency requirements. To receive the Bachelor of Science degree in University College, students must complete a major with grades of C- or better in all major courses. For certain majors students must satisfy specific prerequisites before declaring the major. The total number of units required for each major varies according to the department. At least half the units for the major must be completed at Washington University. At least 30 units of advanced courses overall must be completed at Washington University. No more than nine units of approved study abroad credit may count toward the degree for students who earn more than 60 units at Washington University; no more than six units of study abroad credit may count toward the major. We encourage students to use their time at Washington University to augment the major with related course work and to explore many different areas of knowledge. For more specific information about Bachelor of Science degree requirements and policies, and specific requirements for each major, please visit the University College website at ucollege.wustl.edu or call (314) 935-6700.

General Education Requirements

Basic Requirements:

U11 101 Principles of Writing*

U11 203 Critical and Researched Writing*

One 3-unit advanced writing course (any 300-level or higher course in English composition)*

One 3-unit course in numerical applications with a minimum grade of C- which may be applied to the distribution requirements as noted below.

One 3-unit course in non-Western Culture, which may be applied to the Social Sciences or Humanities distribution requirements noted below. Courses that satisfy the non-Western culture requirement focus on the study of cultures in societies outside of English-speaking North America and Western Europe, including Africa, East Asia, South Asia, Europe, Latin America, or the Middle East, and encourage students to explore issues of human diversity within such cultures.

**Students who receive a grade of C- or lower in U11 101 Principles of Writing taken at University College must repeat the course. Students who receive a grade of C- or lower in U11 203 Critical and Researched Writing taken at University College must, in consultation with the Department of English and University College, choose between two options to satisfy the requirement: 1) repeat the course; or 2) complete a 3-unit composition tutorial with a grade of C or higher. Transfer credit for U11 101 Principles of Writing may be granted for a grade of B or higher. U11 203 Critical and Researched Writing and the 300-level or higher advanced writing requirement are required of all undergraduate degree candidates, and these courses must be taken at Washington University. Students may still receive transfer credit for a second-level basic writing course; however, that will count as elective credit and they still will be required to take U11 203 Critical and Researched Writing. A student who transfers English Composition courses from another college or university must consult an academic advisor at University College, who will provide options for completing requirements. See the University College website (ucollege.wustl.edu) for additional details about basic requirements.*

Distribution Requirements: 36 units, nine units in each area noted below. A maximum of six units from one discipline may apply toward any distribution area.

- ◆ Natural Sciences and Mathematics
- ◆ Social Sciences
- ◆ Humanities
- ◆ Languages and the Arts

A single course can count toward any two of the following categories: 1) major requirements; 2) basic requirements for numerical applications or non-Western culture; 3) distribution requirements.

Anthropology

Anthropology investigates issues such as human evolution, origins of civilization, gender, ethnic relations, social institutions, medical anthropology, and the impact of the modern world on human societies everywhere. Sociocultural anthropology is a good foundation for careers with an international focus, and those such as education, medicine, and business, that require an understanding of human cultural behavior. Biological anthropology provides background for work in zoology, conservation, and public health venues. Archaeological anthropology is particularly useful for historical and cultural approaches to institutions. To stay up to date with events and news in the Department of Anthropology at Washington University, visit the website at anthropology.artsci.wustl.edu.

Requirements for the Major

All University College undergraduate students must satisfy the same general-education requirements. Requirements specific to this major include:

At least six units from the introductory Anthropology sequence: U69 150 Introduction to Human Evolution; U69 160 Introduction to Cultural Anthropology; or U69 190, Introduction to Archaeology.

15 additional units of course work in the department (must include 12 advanced units)

12 additional units in social sciences (must include 3 advanced units)

Anthropology majors are encouraged to also take a range of courses in the humanities and the natural sciences.

Clinical Research Management

The Bachelor of Science in Clinical Research Management is designed for students in the early stages of a career in clinical research, as well as more experienced individuals such as investigators, coordinators, or sponsor representatives, who want to expand their knowledge and skills in the field.

The program lays a foundation in principles and applications from the basic sciences, and then covers in greater depth the processes necessary in the management of studies that develop drugs, devices, and treatment protocols for patient care.

This customized program focuses on the scientific methods of clinical research, good clinical practice, research ethics, and the regulatory guidelines that protect human subjects—all integral components of clinical trial management in academic research or pharmaceutical industry settings.

Requirements for the Major

All University College undergraduate students must satisfy the same general-education requirements. Requirements specific to the major include:

Required Core Courses—38 units

U05 1001 Concepts in Chemistry

U09 230 Human Growth and Development

U09 358 Psychology of Health

U29 101 General Biology I with Lab

U29 102 General Biology II with Lab

U22 233 Biomedical Ethics

U29 305 Introduction to Microbiology with Lab

U29 322 Introduction to Anatomy and Physiology I with Lab

U29 323 Introduction to Anatomy and Physiology II with Lab

U44 305 Leadership for Organizational Success

Career-Related Courses—21 units

U80 250 Fundamentals of Clinical Research Management I

U80 251 Fundamentals of Clinical Research Management II

U80 318 Introduction to Data and Information Management in Health Sciences

U80 325 Research Ethics and Regulatory Affairs

U80 350 Practicum/Capstone

U80 353 Pharmacology for Clinical Research

U80 430 Business of Clinical Research

Communications

The Bachelor of Science in Communications focuses on theories and applications of communications—organizational, interpersonal, cultural, political, and social. Required core courses build a foundation in communications theory, history, ethics, law, technology, and business. Students also select a concentration for greater professional focus in one of the following areas: Integrated Marketing Communications or Public Affairs. The program core courses and concentration options represent the breadth and depth associated with the study of Communications and they define this field as an important standard of a liberal arts education. The program also emphasizes integration across academic disciplines and industry functions, and it provides the opportunity to analyze and implement communications and leadership skills in a range of organizational settings, media relations roles, and social or political advocacy functions in a changing and complex media environment.

Requirements for the Major

The Bachelor of Science in Communications is a 45-unit program of study that includes 18 units of required core courses, a 12-unit concentration in Integrated Marketing Communications or Public Affairs, a required internship or independent study, and 12 units of elective courses.

Required Core Courses—18 units

U48 203 Writing for Business Communications

U48 234 Foundations of Communications

U48 262 Strategic and Integrated Communications

U48 378 Communications Technology and New Media

U48 4160 Communications Ethics and Law

U48 381 The Business of Communications

Concentration in Integrated Marketing Communications—12 units

Required: U48 350 Public Relations

Electives: nine units of advanced-level course work in communications, business, journalism, others with approval.

Concentration in Public Affairs—12 units

Required: U48 372 Reputation Management

Electives: nine units of advanced-level related course work in business, political science, journalism, others with approval.

Internship or Independent Study—3 units

Electives—12 units

Economics

The Economics major will familiarize you with the problems of a modern economy and the tools of analysis developed by economists. It emphasizes

both the development of analytic models and their application to such real-world problems as inflation, unemployment, taxation, poverty, pollution, government decision-making, and regulation.

Managerial Economics, a subfield of economics, also addresses the development of analytic models based on economic principles. In Managerial Economics these models are principally applied to specific decisions of businesses, such as profit maximization, strategic behavior, and industry entry and exit. A Managerial Economics major will take courses in quantitative techniques, such as regression analysis, as well as course work in related areas of business, such as accounting, management, and finance. A Managerial Economics major is well-suited to an individual wishing to apply the principles of economics to the business environment.

Requirements for the Majors

All University College undergraduate students must satisfy the same general-education requirements.

To major in **Economics**, you must complete the following:

Economics Core Courses—15 units

U07 103 Introduction to Political Economy—Microeconomics

U07 104 Introduction to Political Economy—Macroeconomics

U07 231 Economic Statistics

U07 401 Price Theory

U07 402 Income and Employment Theory

Economics Elective Courses—12 units

12 units of additional upper-level (300–400) economics courses

U07 414 Econometric Techniques is strongly recommended

Social Science Elective Courses—9 units

Nine additional units in the social sciences, which may include economics courses

Additional Recommended Courses

U20 155 Calculus I

U44 263 Financial & Managerial Accounting

To major in **Managerial Economics**, you must complete the following:

Managerial Economics Core Courses—33 units

U07 103 Introduction to Political Economy—Microeconomics

U07 104 Introduction to Political Economy—Macroeconomics

U07 220 Financial Statement Analysis

U07 231 Economic Statistics

U07 403A Managerial Economics

U07 414 Econometric Techniques

U09 214 Introduction to Industrial and Organizational Psychology

U44 125 Business Organization and Administration OR

U44 236 Introduction to Human Resources

U44 251 The Law of Business

U44 263 Financial and Managerial Accounting

U44 270 Marketing Concepts

Economics Elective Courses—6 units

Six units of additional upper-level (300–400) economics courses

Arts & Sciences or Career-Related Elective Courses—12 units

12 units chosen from: Psychology, Communications and Journalism, International Studies, Mathematics, Philosophy, Political Science, others with University College authorization. No more than 25% of the total

course work for students doing a major in Managerial Economics may be in business courses.

Education (with Certification in English or Social Sciences)

At Washington University, the teacher education programs are designed to produce teachers who implement an inquiry approach to education. Based upon the belief that teaching is a complex, normative, and changing activity, teacher education is viewed as an ongoing, problem-solving process as opposed to a search for the “one right” answer or “one best” way. Therefore, students are expected to develop the ability and the inclination to look at educational policy and classroom decision-making from multiple perspectives, and to raise fundamental questions about the purposes, processes, and inequities of the current system. In addition, students are expected to act in ways that have a sound and defensible rationale rooted in research, ethical standards, and personal experience, and to reflect upon and reconsider that practice in the interest of all of their students.

The Major in Education

The Undergraduate Secondary (9–12) Teacher Education Program allows students to pursue a bachelor’s degree and certification in English or social sciences at the same time. As part of this program, students must complete a double major: one in education, and a second major in English or one of the social sciences (history, political science, or international studies). The required education course work in this major totals 30 credit hours and includes a three-credit foundations course, the English or social sciences subject area curriculum and instruction courses, and student teaching.

In addition, students must complete specific, state-required course work in the English or social sciences major, attain sophomore status (60+ credit hours), and pass the state-required C-BASE exam before being admitted to the teacher education program. Students should consult an education advisor about state requirements as early in your academic program as possible.

English

An English major is a good foundation for careers in communications, business, law, social work, the fine arts, and teaching. Course work introduces students to important literary texts and to the development of the English language and the origins of Western literature and culture. Students develop reading and writing skills, rigorous critical thinking skills, and the ability to communicate complex ideas persuasively, all while obtaining a broad liberal education.

Requirements for the Major

English majors are required to take 10 courses as noted below: two required introductory courses; four required 300-level courses; and four 300-level electives. Before enrolling in any literature course, one must satisfactorily complete English Composition 101.

Two Introductory Courses

Two introductory courses, intended to be taken first, are critical surveys of the literary history of the major literatures in the English language. Along with an understanding of the historical movements in literature, these courses also will help develop a vocabulary of critical analysis and literary criticism:

U65 261 Early Texts and Contexts

U65 262 Modern Texts and Contexts

Four 300-Level Courses

Introduction to Literary Theory

Three Historical Courses. You must select at least one course from each of the following groups:

Group 1: Medieval, Early Modern

Group 2: The 18th Century, The 19th Century,
The 20th Century and later

Four 300-Level Electives

Global Leadership and Management

The Bachelor of Science in Global Leadership and Management prepares students for leadership and management positions in a variety of organizational settings, private and public, domestic and international. The program provides an alternative path of study for the liberally educated business professional seeking practical skills and strategies for successful management in a global business environment.

The program also provides critical analysis of historical and social forces that influence leadership and organizations, and it addresses complex questions from different intellectual perspectives in order to broaden business education.

Additionally, the program enables students to examine the dynamic between culture and successful business practice, both at home and abroad, and it provides the opportunity to study in greater depth the culture of a particular geographic area associated with a student's personal and professional interests. A capstone course blends the program's multidisciplinary course work with students' professional experience to help them produce their own integrated and practical strategy for global leadership development.

Requirements for the Major

All University College undergraduate students must satisfy the same general-education requirements. Requirements specific to the major include:

Core Courses—15 units

U07 231 Economic Statistics

U22 234 Business Ethics

U25 3342 Business and Public Policy

U44 125 Business Organization and Administration OR
U44 259 Principles of Management

U44 251 Law of Business I

U44 263 Financial and Managerial Accounting

U44 265 Corporate Strategic and Financial Planning OR
U44 342 Business Finance

U44 270 Marketing Concepts

U48 341 Technology for Managers: Tools and Strategies

Other courses authorized by University College.

Required Major Courses—18 units

U07 403A Managerial Economics

U07 427 Economic Systems in Theory and Practice

U09 381 Cross-Cultural Psychology

U44 240 Introduction to International Business OR

U44 330 International Management: Leadership Across Cultures

U44 305 Leadership for Organizational Success

U44 347 International Marketing

Elective Courses in Culture and Area Studies Courses—12 units

12 units of authorized Arts & Sciences elective courses enrich an understanding of the culture of a geographic area or areas of study outside of the United States, and thereby strengthen one's global outlook on leadership and management. Suggested areas include, but are not limited to, foreign languages, anthropology, comparative literature, history, international and area studies, political science, psychology, and religious studies.

Students pursuing a major in Global Leadership and Management also should take the following courses as either general education requirements or electives:

U07 103 Microeconomics

U07 104 Macroeconomics

U25 103 Introduction to International Politics

U09 100 Introduction to Psychology

U11 324 Professional Writing, Speaking, and Presentation

Health Care

The Bachelor of Science in Health Care provides an academic foundation for students pursuing managerial, clinical, or research careers in health care. The program includes a base of core courses that examine scientific, social, political, economic, ethical, and organizational issues in health care, and that also address implications for individual practice and public policy. This required core, drawn largely from Arts & Sciences, underscores the complex, interdisciplinary nature of health care today, and the mandate for critical thinking, contextual understanding, and ethical behavior across all related fields and careers. Grounded in these common questions and skill sets, students then pursue more specialized professional interests by selecting a concentration in either health care management or health sciences. The program equips students with an academic foundation for graduate or professional school, or for work in a variety of health care professions including, but not limited to, hospital administration, community health, public health, biomedical research, medicine, nursing, dentistry, and physical and occupational therapy.

Required Core Courses—18 units

All University College undergraduate students must satisfy the same general-education requirements. Requirements specific to this major include:

U22 233 Biomedical Ethics

U86 309 Health and Society

U69 3283 Introduction to Public Health OR U86 313 Introduction to Public Health

U29 342 Human Disease and Its Scientific Basis

U07 352 Health Economics

U09 358 Health Psychology

Health Care Management Concentration

18 units, including at least nine units of advanced (300- or 400-level) course work.

Required Health Care Management concentration courses (15 units) are noted below. Additionally, students select one elective course, authorized by University College, chosen from Arts & Sciences, Business, Health Care, Clinical Research Management, Human Resources Management, or Nonprofit Management.

Required Courses in Health Care Management Concentration

U86 312 Legal Issues in Health Care Management

U86 314 Health Care Finance

U86 349 Health Care Communications and Marketing Strategy

U86 355 Health Care Reform and Policy

U86 360 Strategic Planning and Management in Health Care

Health Sciences Concentration

18 units, including at least nine units of advanced (300- or 400-level) course work.

Health Sciences concentration courses, all elective, are chosen in consultation with an advisor and authorized by University College. Courses are chosen from Biology, Chemistry, Physics, Psychology, and other areas with University College authorization. Students pursuing graduate and professional study in medicine and other clinical fields are required to take more than 18 units of prerequisite course work for admission to graduate or professional school.

History

This is an exciting time to be studying history. The transition to the 21st century has prompted intense questioning about the past, the future, and the nature of change. Many old certainties and conventional wisdoms have been challenged, and America's role in an increasingly complex and conten-

tious world demands that we, as citizens, acquire the skills that will allow us to analyze and comprehend that world.

This is precisely what the study of history—of human experience contextualized temporally, culturally, politically, and geographically—is designed to do. The Department of History at Washington University offers students the opportunity to examine human experience across time and in a wide variety of cultural, political, regional, and social contexts. The curriculum is global in scope, and students are encouraged to sample courses across time and space while achieving depth of knowledge in selected areas.

Through the major in history, students also can develop important analytic skills used in law, business, communications, and other professions. These skills include the ability to organize and interpret data, to develop logical and convincing arguments, to do research and sift the significant from the insignificant, to read for comprehension, and to write with precision and clarity. Historians aim for a broad understanding of any problem and gain empathy for people in different times, places, and situations.

Requirements for the Major

To major in History, students must complete the following:

Introductory Courses—6 units

One introductory course chosen from:

U16 101 Western Civilization I

U16 102 Western Civilization II

U16 163 Introduction to U.S. History

U16 164 Introduction to World History

U16 209 America to Civil War

U16 210 America from the Civil War

One additional introductory course, 100- or 200-level, in History.

Advanced Level Courses—21 units

All 21 units of 300- or 400-level courses, to include:

At least one course designated “premodern” and one course designated “modern.”

At least one course from three of the following geographical areas: Africa, East Asia, South Asia, Europe, Latin America, Middle East, or the United States.

At least one specifically designated Research Seminar. Research Seminars are upper-level, limited-enrollment courses that emphasize engagement with primary sources. Course assignments feature texts and images from a variety of published and manuscript materials, and students will research and write a substantial paper over the course of the semester from independently selected and analyzed primary sources. All Research Seminars will be so designated in the course description.

International Studies

International Studies explores economic, political, social, and cultural issues and is a useful major if you are interested in achieving a greater understanding of the world and the diversity of its cultures—useful in business, law, teaching, and governmental careers. This major includes a required concentration in Comparative Culture and Identity or International Political Economy and Business.

Requirements

Required Introductory Courses—6 units

U43 200 U.S. Perspectives on International Studies. May be substituted with a Category B course when unavailable.

U43 205 World Perspectives on International Studies. May be substituted with a Category A course when unavailable.

Required Core Courses—6 units

Six units—three from Category A and three from Category B.

Category A

U16 101 Western Civilization I

U16 102 Western Civilization II

U32 225 World Literature

U69 160 Introduction to Cultural Anthropology

Category B

U25 103 International Politics

U44 240 Introduction to International Business

U44 330 International Management: Leadership Across Cultures

Foreign Language Requirement

All students who major in International Studies must satisfy a foreign language requirement, defined as proficiency through four semesters of study.

Concentration in Comparative Culture and Identity—30 units

The Concentration in Comparative Culture and Identity requires 30 units of authorized course work from at least three different academic departments or programs in the humanities, social sciences, or others with approval. At least 18 units must be in advanced course work at the 300 or 400 level, including, with authorization, a maximum of two graduate courses in the University College Master’s Program in International Affairs. All courses require authorization by the International Studies coordinator in University College.

Concentration in International Political Economy and Business—30 units

The Concentration in International Political Economy and Business requires 30 units of authorized course work from at least three different academic departments or programs in the social sciences, humanities, busi-

ness, or others with approval. At least 18 units must be in advanced course work at the 300 or 400 level, including, with authorization, a maximum of two graduate courses in the University College Master's Program in International Affairs. All courses require authorization by the International Studies coordinator in University College.

Journalism

The Bachelor of Science in Journalism provides an academic and experiential foundation to help launch a career in print, broadcast, and web-based journalism and other news media fields. One of the earliest degree programs to be offered by University College, the Bachelor of Science in Journalism remains grounded in liberal arts imperatives: critical thinking and analysis; clear and thoughtful writing and discourse; discerning use of information; ethical decision-making; appreciation for human diversity; and as an extension of the liberal arts tradition, an understanding of the civic role of media in a free society. The study of journalism at University College is multidisciplinary and contextual, integrating concepts and resources from other academic fields in Arts & Sciences such as anthropology, English, economics, history, political science, and psychology. The program also provides tools and strategies to help students prepare for the digital transformation of journalism that demands proficiency with social media, entrepreneurial and business skills, and the ability to quickly synthesize, analyze, and disseminate information, local to global.

Requirements for the Major

The Bachelor of Science in Journalism is a 45-unit program of study that includes 18 units of required core courses, a 12-unit concentration in a related discipline or division of Arts & Sciences, a required internship or independent study, and 12 units of elective courses. Additionally, candidates for the Bachelor of Science in Journalism are encouraged to fulfill the advanced writing requirement in University College with an appropriate course in English Composition that is relevant to their interests in journalism.

Required Core Courses—18 units

U48 211 Introduction to Journalism: Research to Writing

U48 210 Foundations of Journalism

U48 3451 Effective Editing

U48 378 Communications Technology and New Media

U48 381 The Business of Communications

U48 4160 Communications Ethics and Law

Concentration—12 units

Students explore the contextual and applied value of journalism by selecting 12 units of advanced course work in a single discipline OR division of Arts & Sciences (e.g., anthropology, business, economics, English, health care, history, international studies, political science, psychology, sustainability, or a division of humanities, social sciences, natural sciences).

Internship or Independent Study—3 units

Electives—12 units

Elective course work, chosen primarily to sharpen writing skills, may include three units of advanced course work in English Composition, in addition to the advanced course taken to fulfill the advanced writing requirement for the Bachelor of Science degree.

Political Science

A political science major offers you the opportunity to study political life as part of a broad liberal education. It is a useful step toward law or business school. Political science students also pursue careers or further education in public administration, urban planning, journalism, education, and social work, or in federal, state, or local government.

Requirements for the Major

All University College undergraduate students must satisfy the same general-education requirements. To major in political science, you must complete a minimum of 30 units of political science course work, including at least six units of introductory course work, a 300-level course on research methods, and at least 18 units at the 300 and 400 levels. The 18 advanced units for the major must include at least one three-unit course from three of the following five fields:

- ◆ American Politics
- ◆ Comparative Politics
- ◆ International Politics
- ◆ Political and Social Theory
- ◆ Methods of Political Research and Analysis

Psychology

As the science concerned with the study of behavior, psychology includes such areas as learning and memory, motivation, sensory processes and perception, biological bases of behavior, social interactions, aging and development, personality, and clinical and abnormal psychology.

Undergraduate study in psychology provides a sound basis for later professional graduate training on the MA or PhD level in psychology. The psychology major may also provide important intellectual tools for those considering careers in management, law, education, social work, public relations, and health-related professions.

Requirements for the Major—30 units

Students majoring in psychology in University College must complete a minimum of 30 units in psychology, including the following:

Introductory Psychology Courses

- U09 100 Introduction to Psychology
- U09 300 Psychological Statistics
- U09 3015 Research Methods

Unless otherwise stated, Psychology 100 is a prerequisite for all advanced psychology courses.

Psychology Area Courses

Five upper-level (300–400) psychology courses as indicated below:

At least one course from Group A (Social/Developmental area):

- U09 315 Introduction to Social Psychology
- U09 322A Developmental Psychology
- U09 325 Psychology of Adolescence
- U09 381 Cross-Cultural Psychology
- U09 4261 Psychology of Aging

At least one course from Group B (Personality/Abnormal area):

- U09 3195 Abnormal Child Psychology
- U09 353 Psychology of Personality
- U09 354 Abnormal Psychology

At least one course from Group C (Brain/Behavior/Cognition area):

- U09 3401 Biological Psychology
- U09 359 Cognitive Psychology
- U09 3604 Cognitive Neuroscience

U09 365 Learning and Memory

At least two courses from Group D (Applications area):

U09 314 Organizational Psychology

U09 330 Perspectives on Counseling

U09 358 Health Psychology

U09 367 Positive Psychology

U09 389 Consumer Psychology

U09 404 Psychological Tests and Measurement

U09 409 Introduction to Behavior Analysis

Additional Electives (nine hours)

To complete the psychology major, students must complete nine additional units in psychology at the 300–400 level. A maximum of three units of independent study may apply to the major.

The Minor in Psychology

The requirements for the traditional minor are a minimum of 15 units in psychology with at least nine units in upper-level (300–400) courses; there are no specific course requirements other than U09 100 Introduction to Psychology. Students interested in a general background might take courses in several areas: social, sensation and perception, physiological, personality, etc. Those who wish to concentrate in a specialized area (e.g., the “helping professions” or counseling) should take such courses as personality, abnormal psychology, developmental, or perspectives on counseling.

Sustainability

The Bachelor of Science in Sustainability provides an interdisciplinary approach to understanding and resolving today’s most pressing and complex environmental, economic, and social challenges. The program is built on a foundation of Arts & Sciences courses that examine sustainable living from multiple perspectives—scientific, political, economic, social, historical, philosophical, anthropological, and literary.

Grounded in this integrative approach and common understanding of the issues, students then choose one of three concentrations for greater in-depth study of sustainability: 1) Sustainable Environment and Science, for primary focus on environmental sciences, natural resources, and energy; 2) Sustainable Management and Organizations, for primary focus on sustainable business strategies and the triple bottom line—economic, social, environmental; and 3) Sustainable Communities and Development, for primary focus on designing and managing sustainable spaces in our cities and communities. The three concentrations include selected courses from Arts & Sciences, Business, Engineering, and Architecture.

The overarching goal of the Bachelor of Science in Sustainability is to provide students with knowledge and methods about sustainability, local to global, and to help improve the quality of individual lives, the productivity of institutions, and the security of our planet.

Candidates for the Bachelor of Science Degree in Sustainability in University College may not simultaneously pursue a Certificate in Sustainability (Communities and Development, Environment and Science, Management and Organizations) offered by University College. Bachelor of Science in Sustainability students should pursue this category of courses as a concentration within the Bachelor of Science.

Courses that apply to this degree program may be found by selecting “U19 Sustainability” under the Courses and Registration tab on the University College website. Requirements specific to this major include:

Total: 45 units

Required Core Courses—30 units

U29 364 Global Sustainability

U29 209 Introduction to Environmental Studies

U22 2352 Environmental Ethics

U19 344 International Development and Sustainability

U25 3312 Environmental and Energy Issues

U07 355 Environmental Economics

U69 361 Culture and Environment

U19 328 Environmental Law

U65 313 Nature and the American Literary Imagination **OR**

U65 344 Nature Writing and Environmentalism

U44 358 Systems Thinking and Decision Analysis

Sustainable Environment and Science Concentration

15 units, including required U19 450 Sustainability Capstone, and four other authorized electives chosen from below; other courses with authorization.

U13 107 Environmental Geology and Energy

U16 3643 Science and Society

U19 146 Introduction to Energy, Environmental, and Chemical Engineering

U29 413 Environmental Science: Regional and Global Perspectives

U29 419 Ecology

U82 435 GIS for Engineering Applications

E63 262 Introduction to Environmental Engineering

E63 449 Sustainable Air Quality

E63 438 Environmental Risk Assessment and Toxicology

Students pursuing this concentration are advised to take Calculus and Statistics, to count toward math/science distribution or general elective.

Sustainable Management and Organizations Concentration

15 units, including required U19 450 Sustainability Capstone, and four other authorized electives chosen from below; other courses with authorization.

U44 270 Marketing Concepts

U44 305 Leadership for Organizational Success

U44 350 Public Relations

U44 356 Operations and Supply Chain Management

U44 375 Contemporary Organization Development, Innovations, Sustainability

U44 3777 Accounting and Finance for Sustainable Operations

U87 520 Organizational Behavior

Sustainable Communities and Development Concentration

15 units, including required U19 450 Sustainability Capstone, and four other authorized electives chosen from below; other courses with authorization.

A46 472 Sustainable Development

A46 336A Sustainability

L22 3066 The American City in the 19th and 20th Centuries

U19 106 Introduction to Political Theory

U19 299 Study of Cities in Metropolitan America

U69 312 Population and Society

U19 315 Introduction to Historic Preservation

U19 343 Management of the LEED Design Process

U19 352 Universal Design: Process, Principles, and Application

U44 359 Public Budgeting and Finance

U19 362 Practical Applications of Sustainable Design I

U19 363 Practical Applications of Sustainable Design II

Undergraduate and graduate degree and certificate programs offered through University College are not offered by the Olin Business School at Washington University and do not come under the accreditation responsibility of the Association to Advance Collegiate Schools of Business (AACSB). No more than 25% of course work applied to a Bachelor of Science in University College may be in business disciplines.



Undergraduate Honors Program

The Undergraduate Honors Program in University College offers high-achieving students the opportunity to join a learning community dedicated to an exceptionally rigorous, flexible, and independent program of study that takes advantage of courses and services across Washington University. The program includes academic and co-curricular activities that build on the experience of adult learners; foster intellectual curiosity; and strengthen skills in critical thinking, reading, writing, and research. Honors Program course work also engages students with ethical questions, historical and cultural forces, and global perspectives. Upon completion of the Honors Program, eligible students will be awarded the BS cum laude, magna cum laude, or summa cum laude through achievement of minimum cumulative averages of 3.65, 3.75, or 3.85 respectively, recommendation by the academic department or program, and evaluation of the research and writing project. Honors Program components include dedicated honors courses; additional courses on the American experience and global environment; day course options in Arts & Sciences; departmental research project; Latin Honors; capstone presentation; dedicated advising; dedicated co-curricular activities; and scholarships for honors students. For more information about the Undergraduate Honors Program in University College, visit ucollege.wustl.edu.

Minor

A minor in University College consists of a minimum of 15 units of authorized course work in selected academic disciplines or interdisciplinary programs in University College. The course requirements for a minor are determined by each department or program.

At least nine units must be advanced course work (300 level or above), and at least six of the nine units in advanced course work must be completed at University College. A minor is available only to students admitted to a University College Bachelor of Science degree program. Course work taken as part of the minor may fulfill distribution requirements, but the same course may not apply to both a major and a minor. Only courses receiving a grade of C- or higher will be applied to the minor. In order to be awarded the minor, students must earn a cumulative grade point average of 3.0 or higher in all courses taken toward the minor. Students may not pursue a minor in an area for which a certificate is offered in University College. To declare a minor, submit a completed “Minor” form to an academic advisor in University College before beginning the final 36 units of course work.



Second Bachelor's Degree

Students who have completed one baccalaureate degree from an appropriately accredited institution of higher learning may be eligible to earn a second bachelor's degree at University College. In order to earn a second bachelor's degree, a student must be admitted to degree candidacy, fulfill the 36-unit residency requirement, and, through transfer credit and course work at Washington University, satisfy all University College degree and major requirements.

Special Day Major

Qualified University College students, on a case-by-case basis, may be authorized to pursue a major program of study normally offered only to day students. Students pursuing the special day major are required to pay day tuition for all day courses. All other course and degree requirements must be in accordance with University College policies and requirements.

Combined Bachelor's/Master's Degree Program

The Combined Bachelor's/Master's Degree Program in University College is designed for motivated, high-achieving students who wish to pursue rigorous and accelerated study leading to completion of both a Bachelor of Science degree awarded by University College and either a Master of Arts or Master of Science in most areas of study for which there are degree programs in University College. Bachelor's/Master's students must complete a minimum of 135 units of course work, undergraduate and graduate, including all residency requirements for the Bachelor of Science degree, and at least 30–36 units of graduate course work at the 400 and 500 level. For more information, visit the University College website (ucollege.wustl.edu).

Joint Degree

If you wish to receive a joint bachelor's degree between University College and another division of Washington University, you must complete a total of 150 units, at least 30 units of which are taken in University College, and you must satisfy the general and major requirements for University College.

Visiting Students and Nondegree Study in the Day

Students in good standing at other institutions or other qualified individuals who wish to take undergraduate day courses for up to two semesters for personal or professional development are eligible to enroll in Arts & Sciences courses at Washington University as visiting students pursuing nondegree study. To be approved for visiting student status, you must submit an application for Visiting Student and Nondegree Study along with official transcripts from all previously attended colleges and universities. Students planning to enroll full time in day courses are expected to have a minimum 3.0 grade point average. Authorization for visiting and nondegree study does not constitute or imply acceptance to a degree-granting division of the university. For more information about visiting student status and nondegree study, visit the University College website (ucollege.wustl.edu).

Nondegree Study in the Evening

Many students in University College are not seeking a degree or certificate and only wish to take a course or two to meet specific career or personal goals. University College's open enrollment policy allows students to take evening undergraduate courses on a nondegree basis without submitting a formal application for admission. Nondegree students must have a high school diploma or the equivalent. Some courses are restricted to students admitted to degree or certificate programs.

CERTIFICATE PROGRAMS

University College awards undergraduate and graduate certificates in many specialized areas of professional and personal development. All certificate programs are credit-bearing and vary in length and requirements. For those that include 18 or fewer units of credit, all course work must be completed at University College. For those with 30 units of credit, at least half the course work—including the last 15 units—must be completed at University College. To receive a certificate from University College, you must have earned a cumulative grade point average of 3.0 or higher in all courses taken. You must be admitted to a certificate program prior to completion of half of the course work required for the certificate.

You may pursue an undergraduate certificate on a stand-alone basis or as part of a bachelor's degree. Courses taken toward an undergraduate certificate program may be applied to a University College Bachelor of Science degree, as distribution, general elective, or major elective courses. A maximum of six units of course work from a University College undergraduate certificate may be used as core major courses in a University College Bachelor of Science degree. Candidates for the Bachelor of Science Degree in Sustainability in University College may not simultaneously pursue a Certificate in Sustainability (Communities and Development, Environment and Science, Management and Organizations) offered by University College. Bachelor of Science in Sustainability students should pursue this category of courses as a concentration within the Bachelor of Science.

All units from graduate certificate programs may count toward the unit requirements for a master's degree with the same program title. Students completing both a Certificate in Post-Baccalaureate Premedical Study and a Master's Degree in Biology must complete a minimum of six units beyond the requirements for the master's degree.

Please visit the University College website (ucollege.wustl.edu) or call (314) 935-6700 for more detailed information, requirements, and policies concerning specific certificate programs.

University College Offers Undergraduate Certificates in the following areas:

Applied Behavior Analysis—19 units

The curriculum for the 19-hour Certificate Program in Behavior Analysis includes four required core courses, Practicum, and one elective course. The four core courses are Introduction to Behavior Analysis, Applied Behavior Analysis I, Applied Behavior Analysis II, and Applied Behavior Analysis: Research Methods and Evaluation. The Practicum consists of two semesters (or 30 weeks) of supervised field-based experience in Applied Behavior Analysis. In addition to the aforementioned training, students are required to complete one approved elective course. The course work, along with appropriate practicum experience, will prepare students to sit for the Board Certified Assistant Behavior Analyst™ Examination.

Core Courses

- U09 409 Introduction to Behavior Analysis
- U09 444 Applied Behavior Analysis I
- U09 445 Applied Behavior Analysis II
- U09 446 Applied Behavior Analysis
- U09 449 Applied Behavior Analysis: Practicum

Applied Mathematics—18 units

To earn the undergraduate Applied Mathematics Certificate, you must complete six upper-level (300–400) mathematics courses (18 units total), of which at least one must be Math U20 301 or 309.

Business—30 units

The Certificate in Business (30 units) provides information, skills, and resources to help business managers become more effective organizational leaders. The course work, drawn from both Business and Arts & Sciences, addresses core competencies, diverse perspectives, and multiple contexts required for successful business management in the following areas:

- ◆ Organizational Behavior and Administration
- ◆ Communication
- ◆ Leadership and Supervision
- ◆ Strategic Planning
- ◆ Ethics
- ◆ Accounting, Finance, and Statistical Analysis
- ◆ Marketing
- ◆ Legal Issues
- ◆ International Business, Diversity, and Global Economics

The Certificate in Business is a strong complement to any undergraduate degree program in University College, emphasizing the applied value of a liberal arts education. The Certificate in Business may also be pursued on a stand-alone basis for individuals already holding a degree but seeking professional development in a business setting.

Required Courses:

U11 324 Professional Writing, Speaking, and Presentation

U44 263 Financial and Managerial Accounting

U44 251 Law of Business I

U44 120 Business Organization and Administration **OR**

U09 214 Introduction to Industrial and Organizational Psychology

U44 305 Leadership for Organizational Success **OR**

U44 220 Supervisory Management

U44 230 Strategic Planning and Policy **OR**

U48 362 Strategic Planning for Communications Professionals

U44 270 Marketing Concepts **OR** U48 258 Introduction to Marketing
OR U48 305 Market Research and Communications Strategies

U44 330 International Management: Leadership Across Cultures **OR**
any other three-credit International Studies course authorized by
University College

U22 234 Business Ethics **OR** U22 120 Problems in Philosophy **OR**
U22 131 Present Moral Problems **OR** U25 333 Business, Government,
and Society **OR** any other three-credit Ethics course authorized by
University College

U07 231 Economic Statistics **OR** any other Statistics course authorized
by University College

Clinical Research Management—21 units

The Certificate in Clinical Research Management is designed primarily for individuals with clinical research responsibilities who want the formal course work to complement their skills and experience in the field.

The 21-unit certificate program targets key processes for managing research protocols that develop and use drugs, devices, and treatments for patient care. The program focuses on the scientific methods of clinical research, good clinical practice, research ethics, and the regulatory guidelines that protect human subjects—all integral components of clinical trial management in academic research or pharmaceutical industry settings.

Requirements for the Certificate in Clinical Research Management—21 units

U80 250 Fundamentals of Clinical Research Management I

U80 251 Fundamentals of Clinical Research Management II

U80 318 Introduction to Data and Information Management in Health Sciences

U80 325 Research Ethics and Regulatory Affairs

U80 350 Practicum/Capstone

U80 353 Pharmacology for Clinical Research

U80 430 Business of Clinical Research

Creative Writing—16 units

University College's creative writing courses are open to all students who possess writing skills comparable to those typically learned in English Composition 101 and 102. However, for those who want to explore in depth and achieve significant mastery in the art of writing poetry, fiction, or creative nonfiction, University College offers a 16-unit Certificate Program in Creative Writing.

Students may specialize in any one of the three genres: poetry, fiction, or creative nonfiction. Each student will take five 3-credit, advanced-level (300 or higher) courses, including three courses devoted to mastering the craft of writing in the chosen specialty genre, one course primarily in reading and analysis of the literature in that genre, and one course in a second genre.

The student's final course in the program will be taken for four credits, rather than the usual three, and will include a one-credit meta-commentary assignment. This assignment requires stepping back from the particular course and describing (in 1,500 words) what you have learned about the differences between and similarities among the genres investigated and how these have affected your choice of genre.

Instructors are experienced professional writers, most of whom are associated with the Washington University Graduate Writing Program and the Department of English. All of the craft courses are taught on the workshop model, with open discussion, and detailed, constructive criticism of each student's writing.

Entrepreneurship, Leadership, and Creativity—24 units

The Certificate in Entrepreneurship, Leadership, and Creativity offers an innovative approach to the increasingly complex and changing business environment. The program includes four major elements:

- A toolkit of basic principles and skills for the study and practice of entrepreneurship and business startup.
- Basic grounding in the theory and practice of social entrepreneurship, which focuses on the social, as well as the economic, value of entrepreneurial activity.
- Analysis of the broader context of entrepreneurship, drawing on perspectives from Arts & Sciences disciplines to examine social, economic, historical, and cultural forces that influence the subject.
- Multiple and interdisciplinary perspectives for examining creativity, leadership, and innovation as important elements of entrepreneurial thinking and behavior.

The course work and instruction associated with the program is both theoretical and experiential, enabling you to apply course information to your current and prospective work environments.

While this is considered an undergraduate certificate program, all students, with different levels of academic background and professional experience, and whose goals and interests in entrepreneurship and leadership are consistent with the program goals, may apply to the program or register for the courses as long as they have met program admission requirements and course prerequisites.

Courses

This is a 24-unit certificate program, composed of required courses and elective courses. Required courses a) provide basic information, skills, and tools with which to understand and practice entrepreneurship, both in the conventional sense of business startup and the broader sense of social entrepreneurship; and b) provide strategies for effective leadership and management in a variety of entrepreneurial work environments. Elective courses, which must be drawn from Arts & Sciences disciplines, a) place entrepreneurship and creativity in a broader historical and intellectual context; and b) provide different perspectives, examples, and applications associated with creativity, innovative thinking, and entrepreneurial activity. All courses, required and elective, are University College evening courses. Other elective courses, evening and day, also may be taken, subject to University College approval.

Required Courses—15 units

U44 232 Entrepreneurship

U44 410 Social Entrepreneurship

U44 305 Leadership for Organizational Success

U44 263 Financial and Managerial Accounting

U44 270 Marketing Concepts

Geographic Information Systems—18 units

Geographic information systems (GIS) display and manage all types of data over time, usually in the form of maps, charts, and reports, to help analyze patterns and trends.

GIS technology, easily integrated into any organization's information system, provides a quick and effective method for sharing data visually and solving problems. GIS is widely used in many fields and industries, including environmental science, architecture, engineering, medicine, municipal government, public health, social work, business, and a variety of research enterprises.

The 18-unit Certificate in Geographic Information Systems offered through University College teaches both fundamental and advanced concepts and skills, including design of GIS projects, operation of software, cartographic output, spatial analysis, and industry-specific applications of GIS. The certificate targets working professionals seeking course work and skill enhancement in the field, as well as students wishing to complement their academic interests with additional training in GIS.

Required Courses—15 units

U90 200 Introduction to GIS

U13 221 Spatial Data Modeling and Design

U90 303 Digital Cartography

U90 300 Advanced Topics in GIS

U90 422 GIS Clinic OR U90 450 GIS Capstone Experience

Elective Courses—3 units

U90 310 GIS Programming

U90 425 Public Health Applications of GIS

U90 426 GIS for Engineering Applications

U90 427 Public Sector Applications of GIS

Somatic Studies—17 units

“Somatics,” a term first coined by the philosopher Thomas Hanna in 1976, is derived from the Greek word for the living body, soma. Somatic or embodied practices investigate movement as a mode of thinking and researching.

Somatic practices emphasize the unity of mind and body as experienced from within, and complement disciplines of inquiry that primarily study knowledge about the human body and mind. Though relatively new to Western thought, somatic practices are recognized in numerous ancient and contemporary cultures not only as beneficial to physical health, but

also as methods for cultivation of mind and discovery of knowledge. Such experience may inform knowledge in such areas as biology, neuroscience, physics, psychology, philosophy, anthropology, and religious studies. Somatic practices also have applied value in professions such as education, performing arts, athletics, medicine, and physical therapy. The courses for the Certificate in Somatic Studies are listed in the Dance Program at Washington University.

The Certificate in Somatic Studies offers a diverse spectrum of movement experiences and techniques aimed at self-awareness and self-knowledge, rather than artistic public performance. With the coordinator's approval a maximum of three units of course work from other disciplines may be applied to the Certificate in Somatic Studies.

Requirements for the Certificate

The Certificate in Somatic Studies is composed of a minimum of 17 units of course work, including the required two-unit course, U31 285 Introduction to Somatic Practices, an introductory survey of a variety of practices offered in the program, complemented by lectures on related disciplines such as biology, philosophy, and psychology. Students choose an additional 15 units from the courses noted below according to individual interests and goals. As noted above, with the coordinator's approval, a maximum of three units of other course work, including courses from other disciplines, may be applied to the Certificate in Somatic Studies.

U31 104 Body Conditioning

U31 106 Introduction to Dance as a Contemporary Art Form

U31 110 Topics in Dance: Alexander Technique

U31 115 Beginning T'ai Chi Ch'uan I

U31 116 Beginning T'ai Chi Ch'uan II

U31 119 Body–Mind Balance

U31 120 Yoga and Relaxation Techniques

U21 157 Dance Workshop

U31 176 Authentic Movement and Body–Mind Integration

U31 177 Languages of Movement Expression

U31 208 Introduction to Pilates

U31 212 Contact Improvisation

U31 213 Ecosomatic Practices: Contemplative Movement in Nature

U31 220 Intermediate Yoga

U31 221 Mind–Body Movement: Yoga and Pilates

U31 285 Introduction to Somatic Practices—Required

U31 290 Movement for Writers

U31 385 Special Studies in Somatics

U31 411 Teaching Creative Movement to Children

U31 423 Topics in Dance: Dance/Movement Therapy

U31 430 Applied Anatomy for the Performing Artist

U31 433 Somatic Awareness Approaches I: Somatic Psychology

U31 436 Somatic Awareness Approaches II: Methodology

Note: This certificate is recognition of a general emphasis of educational study and does not entitle its bearer the authority to teach specific methods that have their own established certification standards or regulatory policies concerning such practice.

Strategic Communication—21 units

The Certificate in Strategic Communication provides essential skills for designing, implementing, and managing business communications programs for a range of corporate, agency, and nonprofit organizations. Students in the program learn to coordinate internal and external communications. Program components help students implement programs personally, manage in-house resources, or direct external teams of communications professionals.

The program provides in-depth instruction in writing, editing, and presentation along with analysis of critical concepts in communications research, management, marketing, advertising, public relations, technology, and media (traditional and new)—and how these functions relate to each other in creating effective organizational communications.

A wide choice of electives allows students to customize a program to support individual career aspirations in disciplines such as public relations or advertising, or to pursue more depth in business, research, or technology.

The 21-unit program includes five required courses and two authorized elective courses.

Required Courses—15 units

U48 203 Writing for Business Success **OR**

U48 211 Introduction to Journalism: Research to Writing

U48 262 Introduction to Strategic Communication

U48 3451 Effective Editing

U48 3411 Technology for Managers: Tools and Strategies

U11 324 Professional Writing, Speaking, and Presentation

Sustainable Communities and Development—21 units

Sustainable communities are planned, built, and modified to promote a quality of life that is ecologically responsible and inclusive to foster the creative use of our physical and cultural resources. The Certificate in Sustainable Communities and Development, designed primarily for professionals in architecture, planning, law, government, and development, offers knowledge and methods to design and develop sustainable places and spaces within our community. Grounded in a comprehensive understanding of the ecological, political, and social context of the subject, the program also offers students a set of specific practical skills with which to plan sustainable communities. The scientific, political, economic, and social implications of sustainable development and design are addressed in the core and elective courses. A studio-based capstone experience addresses the collaborative and integrative nature of sustainability development. The

program includes 21 units of undergraduate course work, 18 in required courses noted below, three in electives.

Required Courses:

U29 364 Global Sustainability

A46 472 Sustainable Development **OR**

U19 319 Planning Sustainable Communities

A46 336A Sustainability

U19 362 Practical Applications of Sustainable Design I

U19 363 Practical Applications of Sustainable Design II

U19 450 Sustainability Capstone

Sustainable Environment and Science—21 units

The Certificate in Sustainable Environment and Science provides an interdisciplinary approach to understanding and resolving today's most pressing and complex environmental and ecological challenges. The program includes foundation courses that examine sustainable living from multiple perspectives, as well as more targeted courses that focus on environmental sciences, natural resources, and energy. The program includes 21 units of undergraduate course work, nine units in required courses noted below, and 12 units in electives noted below (others with authorization). Courses that apply to this certificate program may be found by selecting "U19 Sustainability" under the Courses and Registration tab on the University College website.

Required Courses—9 Units

U29 364 Global Sustainability **OR**

U29 413 Environmental Science: Regional and Global Perspectives **OR**

U19 344 International Development and Sustainability

U44 358 Systems Thinking and Decision Analysis

U19 450 Sustainability Capstone

Sustainable Management and Organizations—21 units

The Certificate in Sustainable Management and Organizations provides an interdisciplinary approach to understanding and resolving today's most pressing and complex business and organizational challenges. The program includes foundation courses that examine sustainable living from multiple perspectives, as well as more targeted courses that focus on sustainable business, management, and leadership strategies, including the triple bottom line—economic, social, and environmental. The program includes 21 units of undergraduate course work, nine units in required courses noted below, and 12 units in electives noted below (others with authorization). Courses that apply to this certificate program may be found by selecting “U19 Sustainability” under the Courses and Registration tab on the University College website.

Required Courses—9 units

U19 344 International Development and Sustainability

U29 364 Global Sustainability OR

U29 413 Environmental Science: Regional and Global Perspectives OR

U44 358 Systems Thinking and Decision Analysis

U19 450 Sustainability Capstone

University College Offers Graduate Certificates in the following areas:

Applied Mathematics—15 units

The Advanced Certificate in Mathematics recognizes those who have pursued significant advanced study in the field of mathematics beyond the bachelor's degree. It is awarded upon completion of 15 units of 400-level course work in applied mathematics.

Admission to the graduate certificate program normally requires a baccalaureate degree with an undergraduate preparation in mathematics, including the equivalent of the standard calculus sequence (Math U20 155 Calculus I through Math U20 256 Calculus IV) and courses in program-

ming, matrix algebra, and intermediate statistics. In addition, an upper-level math course based on proof writing, such as U20 3101 Foundations for Higher Mathematics, is required.

A Sample of Graduate Courses in Mathematics at University College

U20 404 Numerical Methods

U20 405 Advanced Calculus

U20 415 Partial Differential Equations

U20 433 Applied Abstract Algebra

U20 436 Linear Programming and Extensions

U20 493 Probability

U20 494 Mathematical Statistics

Clinical Research Management—21 units

The Graduate Certificate in Clinical Research Management is designed primarily for experienced professionals who already hold an advanced degree in a related health care field or in business, and who need a targeted cluster of courses in clinical research management for career enhancement. Candidates for the graduate certificate aspire toward leadership positions in academic research centers or related private sector organizations, especially the pharmaceutical industry.

Requirements

The 21-unit certificate program consists of the following required courses:

U80 500 Fundamentals of Clinical Research Management

U80 512 Advanced Data and Information Management in Health Sciences

U80 515 Medical Writing for Clinical Research

U80 518 Drug and Device Development

U80 520 Trends in Health Care Policy

U80 522 Compliance, Legal, and Regulatory Issues

U80 588 Epidemiology for Clinical Research

All courses must be completed with a minimum overall GPA of 3.0.

All courses must be taken at Washington University.

Human Resources Management—15 units

This certificate offered through University College provides a range of courses in the major responsibilities and challenges of human resources to prepare students to work effectively in the field. Originally designed for Washington University master's students and as a complement to the curricula in the schools of business, engineering, and social work, the certificate is also available to the general public.

Certificate Requirements

The Certificate in Human Resources Management is a 15-unit program composed of four required courses and one elective. Required courses are:

U87 520 Organizational Behavior and Management

U87 531 Human Resources Management

U87 543 Compensation Management

U87 571 Legal Aspects of Human Resources Management

International Affairs—15 units

For the 15-unit Advanced Certificate in International Affairs, you must take two international issues courses and two foreign area-studies courses. The fifth course may be chosen from the International Affairs curriculum or a related area. All courses must be on the 400 (graduate) level or above. Tuition rates and application procedures are the same as for the 30-credit MA degree.

Online Option—University College offers fully online courses in International Affairs that provide the option of completing this certificate in a fully online format.

Math Education—15 units

Washington University Institute for School Partnership, in coordination with mathematics and education, has established a 15-hour graduate certificate program in math education through University College. The certificate program is directed at in-service teachers of grades K–8. Candidates for this program generally teach K–8 math, but do not have a college degree in math. Admission to the program is competitive and by application only.

Teachers receive three graduate credits in education for each relevant course completed. The credits may include undergraduate math courses offered through University College, as well as selected math education courses. The program is designed so teachers will receive graduate credit for the additional undergraduate courses.

Nonprofit Management—15 units

Designed to prepare students to succeed in leadership and administration of nonprofit organizations, the Advanced Certificate Program in Nonprofit Management is intended for practicing managers and leaders in a broad range of human service, cultural, educational, religious, and community organizations, and for those who wish to prepare for professional advancement. The curriculum provides a theoretical and practical examination of the governance of nonprofit organizations, the management of volunteers and professionals, marketing, resource development and fundraising, strategic planning, program evaluation, financial oversight, and the social and political context of the nonprofit sector. All classes are offered during late afternoon or evening hours for the convenience of working adult students.

The curriculum covers all aspects of nonprofit administration and management:

Leading and managing nonprofit organizations and interacting with boards of directors

Supervising volunteers and professionals

Fundraising and resource development

Marketing

Quantitative and qualitative program evaluation

Financial management

Planning and decision-making

Social, economic, and political trends affecting the nonprofit sector

Certificate Requirements

Students seeking the Advanced Certificate in Nonprofit Management must complete 15 units of 400-level course work with a 3.0 grade point average and no grade below a B- (B-minus). The certificate can normally be completed in one to two years.

Course Requirements

The following courses are required for the 15-unit certificate:

U76 507 Management in Nonprofit Organizations

U76 508 Resource Development for Nonprofit Organizations

U76 525 Financial Management in Nonprofit Organizations

U76 570 Legal Issues Impacting Nonprofit Organizations

The remaining three units are electives.

Post-Baccalaureate Premedical Program—30 units

The Post-Baccalaureate Premedical Program at Washington University enables qualified college graduates to take core and elective science and math courses that satisfy medical school admission requirements. You also may take approved elective courses in natural sciences, social sciences, and humanities that provide a broad context and skill set for the practice of medicine today. The program is flexible to accommodate individuals changing careers, including those without a science background. For students who enter the program with most premedical course requirements complete, the program offers numerous upper-level biology courses to enhance

a previous academic record and demonstrate science mastery. Courses are typically taken during the evening, and are available in fall, spring, and summer terms. Day courses are also available to students though tuition rates are higher.

Students earning at least 30 units of credit, 24 units of which must be completed at Washington University with a cumulative grade point average of 3.2 or higher, will be awarded a Certificate of Post-Baccalaureate Premedical Study.

Students wishing to complete fewer than 24 units of course work are not eligible for admission to the program, but are welcome to register for courses at Washington University on a nondegree basis.

The Curriculum

The core courses in the Post-Baccalaureate Premedical Program meet the general requirements for American medical schools, as well as those for dental, veterinary, osteopathic, and other health professional programs. Students are urged to check individual schools and programs for specific entry requirements. All courses taken as part of the Post-Baccalaureate Premedical Program must be taken for letter grades, except for courses offered only on a Pass/Fail basis. Students who wish to take course work other than the core requirements must have advisor approval. Up to six credits of appropriate course work, taken prior to acceptance to the post-baccalaureate premedical program, may be applied as transfer credit toward the certificate. Once students begin the certificate program, all course work must be taken in residence at Washington University. Cover letters will be written only for students who observe this policy.

Core Courses

Biology: two semesters with laboratory

General Chemistry: two semesters with laboratory

Organic Chemistry: two semesters with laboratory

Biochemistry: one semester

Math: two semesters of college math. Varies according to school. Statistics recommended. For broadest range of schools, complete Calculus I and II.

General Physics: two semesters with laboratory

English: two semesters, one of composition

In addition to the core courses, elective courses in biology, chemistry, physics, and mathematics are also available.

Post-Baccalaureate Teacher Certification—30 units minimum

For students who have completed a bachelor's degree, Washington University offers the course work necessary to obtain a Missouri secondary teaching certificate. All course work is available through University College during afternoon and evening hours with the exception of student teaching, which is available during the fall (elementary) or spring (secondary, middle, and K–12) semester. Required course work is taken for undergraduate credit. The program tuition rate for any courses leading to certification is the stated University College undergraduate tuition as listed in the University College course schedule.

Certification Areas

Certification through the Post-Baccalaureate Program is available in the following teaching areas:

Secondary teaching areas: English, mathematics; biology; chemistry; earth science; physics; social studies

Middle School 5–9: English; social studies; mathematics; science

K–12 teaching areas: art; classics (Latin); dance; modern foreign languages (Chinese, French, German, Japanese, Russian, Spanish)

Elementary Education 1–6

State requirements for certification are complex and change frequently; thus it is important that students interested in certification consult with an advisor in the Department of Education prior to applying to the Post-BA program.

Program of Study

The actual number of credit hours necessary for certification depends on the student's background and program. Upon admission to the Post-BA program, each student's transcript(s) is evaluated by an advisory committee in the Department of Education to determine the courses needed for certification. Students who have no prior course work in education should plan on a minimum of 30 credit hours in education courses (48 hours for elementary). Persons already certified at the elementary or secondary level can pursue middle school certification through the Post-BA program.

Program Completion

The Post-BA program may be completed within two years. All education courses are offered at least once a year; many are offered twice. Only those courses needed to complete certification requirements are considered part of the program. Thus, a person can prepare for a career in education quickly, while continuing to work until the semester of student teaching.

Upon satisfactory completion of all the requirements for the Post-Baccalaureate program, students are recommended for teacher certification to the State of Missouri.

Science Education—15 units

Washington University Institute for School Partnership, in coordination with the departments of biology and education, has established a 15-hour graduate certificate program in science education through University College, the evening division of Arts & Sciences. The certificate program is directed at in-service teachers of grades K–8. Candidates for this program generally teach K–8 science, but do not have a college degree in science. Admission to the program is competitive and by application only.

Teachers receive three graduate credits in education for each relevant course completed. The credits may include undergraduate natural science and math courses offered through University College, as well as selected science education courses. The program is designed so teachers receive graduate credit for the additional undergraduate courses.

SUMMER SCHOOL

The Summer School at Washington University offers courses for both the College of Arts & Sciences and University College in order to meet the goals and interests of a variety of student populations, from the pre-college teenager to the nontraditional adult. Administered primarily by University College, the Summer School runs day and evening courses, workshops, and institutes for current and visiting students. Summer School courses are scheduled over five separate sessions, many in flexible, hybrid, or online formats. For more information, visit summerschool.wustl.edu or call (314) 935-6720.

Summer Writers Institute

The Summer Writers Institute brings together some of the brightest and most accomplished writers from St. Louis and beyond. The two-week program features workshops in various genres from personal narrative to flash fiction, readings, individual conferences with instructors, and a final open mic. Kept to small enrollments to encourage dynamic discussions, the Institute allows students to hone their craft and explore new approaches. Workshops are led by professional, published writers who are experts in their fields and accomplished in providing constructive critique. Courses are conducted on Washington University's campus—home to a century of great writing, from reluctant student Tennessee Williams to current National Book Award Finalist Carl Phillips. For more information, visit summerschool.wustl.edu/swi or call (314) 935-6720.

Institute in Biology for Science Teachers

Science teachers earn six units of graduate credit in this hands-on, three-week summer institute. Participants interested in continuing on to earn an MS in Biology for Science Teachers can take online courses during the academic year. For more information, call (314) 935-8974.

McDonnell Academy International Leadership Institute (MAILI)

MAILI invites students to participate in the McDonnell Academy's vision of broadening international understanding and cooperation among the people and institutions of the world. In this five-week, six-unit academic experience, American and international undergraduates develop leadership skills, study global issues, build a global community, and experience international culture. For more information, visit pages.wustl.edu/maili or call (314) 935-4807.

WUSTL-ALLEX Intensive Chinese and Japanese Language Institutes

Students jump start Chinese and Japanese language proficiency in this seven-week, four-unit program. Small classes are taught by master professors representing many of the country's preeminent Asian language programs, as well as native speakers from China, Taiwan, and Japan. With two teachers for every language student, the program features frequent and meaningful cultural performances in the target language and teaches students to speak and act in a culturally appropriate way. For more information, visit summerschool.wustl.edu/intensive-chinese-and-japanese or call (314) 935-6720.

WUSTL-ALLEX Chinese and Japanese Teacher Training Institute

Post-baccalaureate students from China, Japan, and Taiwan study Chinese and Japanese pedagogy in this seven-week, 4.5-unit program. After learning from master professors, students go on to colleges and universities across the country to begin or enhance Chinese and Japanese language programs. For more information, call (314) 935-6720.

Fudan at Washington University Summer Program

Washington University welcomes students from Fudan University to participate in the Fudan at Washington University Summer Program. Students enroll in two courses with Washington University undergraduates, live in a residence hall with other students from around the world, and attend various programmed activities designed to introduce them to St. Louis and American culture. For more information, visit pages.wustl.edu/fudansummer or call (314) 935-4807.



HIGH SCHOOL PROGRAMS

College Credit Options

High School Summer Scholars Program

Our five-week High School Summer Scholars Program provides an early taste of college life for academically talented students during the summer following their sophomore, junior, or senior year of high school. Participants get a head-start on college, enrolling in two undergraduate courses chosen from a variety of stimulating introductory college courses offered by the Summer School. These credits can later apply toward a degree at most accredited colleges or universities. Summer Scholars choose to live on campus in a secure residence hall or commute from home, and all enjoy a variety of educational, social, and cultural opportunities. This can be a perfect stepping stone to the next stage of their education. For more information, call toll free (866) 209-0691, or visit summerexperiences.wustl.edu.

High School College Access

The year-round College Access program offers an opportunity for mature, academically successful high school juniors and seniors in the St. Louis area to take college courses at Washington University while still completing their secondary school curriculum. Accepted students may enroll in selected day or evening courses during the fall, spring, or summer sessions, and upon successful completion will earn Washington University college credit, transferable to most other colleges and universities. For more information, call (314) 935-4807, or visit hscollegeaccess.wustl.edu.

Noncredit Options

High School Summer Institutes

The noncredit Summer Institutes provide high school students of all grade levels with an avenue to explore a specialized interest during the summer. Students live in a secure residence hall and join other high school program participants in additional educational, social, and cultural opportunities. Options vary each summer. For more information, call toll free (866) 209-0691, or visit summerexperiences.wustl.edu.



ONLINE LEARNING

University College offers a diverse array of fully online and blended online (hybrid) courses. Online course options are available each term for most degree and certificate programs.

Blended online courses combine on-campus class meetings with online activities and resources. Back-to-back courses permit a student to take two courses per evening. Each blended, back-to-back course meets for two hours and additional instruction takes place online.

University College online courses are distinguished by small class sizes that engage students directly with faculty. Online courses can be accessed at convenient times. Instructors will assign weekly deadlines, keeping

students motivated and on pace. Instructors may also occasionally offer live online office hours or discussion sessions.

Blackboard is the online learning management system that Washington University in St. Louis uses across all campuses. Blackboard provides students with instant access to their grades, syllabi, and schedules. Students can keep in touch with professors and collaborate with peers online, any-time. Blackboard also provides mobile apps for phones and tablets.

For information about online learning in University College, including course and degree program options, visit ucollege.wustl.edu/online/overview.



NONCREDIT PROGRAMS

In addition to earning academic credit through University College, you may also study for personal enrichment and professional development through a number of noncredit opportunities. For more information on personal and professional development programs, please call (314) 935-6700 or visit ucollege.wustl.edu.

Noncredit Short Courses

University College offers a wide range of noncredit short courses for personal enrichment and professional development. Taught by Arts & Sciences faculty at Washington University as well as experienced practitioners, noncredit courses address contemporary questions, historical periods and figures, philosophical concepts, and artistic and literary works that have shaped culture. Short courses also provide a toolbox of skills for job enhancement and career development in a variety of business and organizational settings. Finally, noncredit short courses teach creative expression through writing, film, music, dance, and other creative forms. If you are interested in lively discussion and lifelong learning for personal or professional development, try a noncredit short course.

Arts & Sciences Special Audit Program

The Arts & Sciences Special Audit Program provides the opportunity to audit selected undergraduate and graduate courses offered by University College and Arts & Sciences at a reduced fee on a noncredit, space-available basis. Courses are scheduled during day and evening hours for fall and spring. Courses taken as special audit will not appear on a Washington University transcript and a grade report is not issued. Courses taken on a special audit basis do not carry academic credit and do not apply to degree requirements in a University College program of study. Special auditors attend lectures and discussions, but are not required to complete written work. The special audit option in University College makes it easy to challenge yourself to high-quality continuing education at Washington University.

MLA Saturday Seminar Series

The MLA Saturday Seminars, held each spring and sponsored by the Master of Liberal Arts Program in University College, showcase Arts & Sciences faculty

who explore a common theme from different perspectives and academic disciplines. The seminars are offered free of charge to the public.

Science Saturdays

University College and the Department of Physics invite you to join Washington University scholars and teachers as they explore the frontiers of science. The lecture series, scheduled in both fall and spring semesters, are offered free of charge to the public.

Lifelong Learning Institute

The Lifelong Learning Institute (LLI) at Washington University offers a wide variety of courses that emphasize peer learning and active class participation by senior adults. Study groups are not for credit and there are no exams or grades. Nevertheless, all members of this learning community take their responsibilities seriously and student participation is an essential element in our continuing vitality. There are offerings in art and architecture, contemporary issues, creative writing, economics, film studies, history, literature, math, science, technology, music, and philosophy. Knowledgeable members plan, develop, and present the courses and related field trips, workshops, and cultural and social events. Most subjects are offered in three eight-week regular terms (fall, winter, and spring) and one four-week summer session. A few special interest group courses continue year-round. Those who enroll as annual members are entitled to take two eight-week courses or one eight-week and two four-week courses in each of the fall, winter, and spring terms. Those who do not choose annual membership enroll in individual four- and eight-week courses. Classes meet at Washington University's West Campus in the building on the northwest corner of Forsyth and Jackson streets, 9 North Jackson, in Clayton. There are elevators between the upper garage floors and the classroom floor on the street level. For more information and to be put on the mailing list, visit the LLI website, lli.wustl.edu, or call (314) 935-4237.

ACADEMIC POLICIES

Students are required to satisfy all degree, major, and other program requirements as published in the Bulletin and on the University College website at the date of admission to a University College program of study, with a 10-year statute of limitations. If any changes are made to degree, major, and other program requirements prior to June 30, 2016 and noted on the University College website, students who have been admitted to a program of study prior to these changes being made may retain the requirements associated with the original program as printed in the Bulletin or, with University College authorization, may make appropriate changes to their original program of study in order to adapt to newer requirements. Students admitted to a program of study after program changes are made are required to meet the new requirements and not the original requirements as posted in the Bulletin. If a student has been away from University College for 10 or more years and the original degree or major is no longer offered, the student must select a new, currently offered major and program of study. If a student has been away from University College for 10 or more years and the original degree or major is currently offered but has changed, University College will first review the requirements associated with the original program and, in consultation with the student and relevant academic departments, select degree and major requirements, including appropriate course substitutions from either the original or current program.

Courses

The number of units assigned to each class is noted in the semester Course Schedule. Courses numbered 100(0)–399(9) carry credit toward an undergraduate degree. Courses numbered 400(0)–499(9) normally carry undergraduate or graduate credit. Graduate-level courses numbered 500(0) and above are open only to students admitted to a graduate program or by permission of the instructor and the program director.

Grades

University College's grading system is based on a rated 4.0 scale. The scale and grade points per unit of academic credit for each letter grade are as follows:

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
CR	Credit awarded, but work was not subjected to more precise evaluation
NCR	No credit/student's work was not satisfactory
N	No grade received by the Registrar's Office by the grading deadline
I	Incomplete/semester's work not finished, including failure to complete final exam

W	Withdrawal/student withdrew from course prior to completion
R	Repeat/course has been retaken
S	Satisfactory, used almost exclusively for semester hours earned for research
L	Audit/student satisfactorily audited the course throughout the semester
Z	Audit/student did not satisfactorily audit the course

These grading policies apply to all University College courses. Only courses taken for a letter grade may be applied to a graduate program of study. Courses taken as Pass/Fail or Audit will not count toward a graduate program of study. Grades below C- will not count toward a graduate program of study. Students are responsible for knowing the specific grading criteria and course requirements set by individual instructors. Grades are posted online at the end of the semester. No grades are given by telephone or orally in the office.

Students may choose among four grading options at the time of registration: a letter grade, Credit/No Credit (also referred to as Pass/Fail), Audit, or Special Audit. Changes from one option to another must be made by the dates indicated in the calendar printed each semester in the University College Course Schedule. Students must select the grade option at the time of registration, and any changes must be made according to the dates published in the semester Course Schedule. Grade option changes are not permitted after a semester is over.

The Credit/No Credit option, available for certain courses, allows students to enroll in courses on a Pass/Fail basis. Under this option, students receive credit for courses satisfactorily completed, but a grade is not assigned or calculated in your cumulative grade point average. The standards for receiving Credit are at the discretion of each individual instructor. Undergraduate degree candidates may enroll in no more than 10 percent of their credits taken at Washington University under this option. Courses intended to satisfy the basic and advanced writing requirements for the Associate in Arts and Bachelor of Science degrees, courses in the major and minor, and courses specific to a graduate degree or any certificate are excluded from the Credit/No Credit option. Graduate schools and current employers may require specific letter grades rather than Credit only. A specific grade may

also be required as a prerequisite for more advanced course work in that subject area. A few courses particularly designated by departments may require enrollment on a Credit/No Credit basis, in which case the course would not be included in the 10 percent limit.

The Audit grade may be chosen if a student wishes to have the registration and grade for a course recorded on an official transcript, but does not seek academic credit for the course. Students must meet the requirements established by the instructor to successfully audit a course. As an auditor, normally students are required to attend and participate in a course, but are not required to complete all written assignments and examinations.

The Special Audit is offered only for a selected number of University College courses in the fall and spring semesters. Courses taken as Special Audit will not appear on a Washington University transcript, and a grade report is not issued. Courses taken on a Special Audit basis do not carry academic credit and do not apply to degree requirements in a University College program of study. Special auditors attend lectures and discussions, but are not required to complete written work.

A grade of I (Incomplete) indicates that the instructor has agreed to withhold a final grade pending the completion of a small portion of required work normally due at the end of a semester. Students experiencing a medical or personal problem that makes timely completion of course work difficult or unlikely may request a grade of Incomplete from the instructor prior to the end of the semester. If the instructor consents, an Incomplete Agreement form must be completed. Sixty days after the end of a semester, a grade of Incomplete without an Incomplete Agreement form will be converted to F. For undergraduate students, if the work is not completed within a period of one calendar year the grade of I will be changed to F. For graduate students, if the work is not completed within a period of one calendar year, the grade of I will remain a permanent grade. Future enrollment may be withheld for University College students who have accumulated more than nine units of incomplete work within the previous two years.

A grade of N indicates that no grade has been received by the Registrar's Office by the grading deadline. Sixty days after the end of a semester, a grade of N will be converted to F. Continuing Master's Research is the only exception to the above policy, in which case the permanent grade is N.

Transfer Credit

University College will accept undergraduate transfer credits from other accredited institutions for courses that are comparable to those offered at Washington University. Transfer credit may satisfy distribution requirements of University College and may fulfill a portion of the major requirements. A maximum of 84 units may be transferred for the Bachelor of Science degree; a maximum of 66 units will be accepted from a junior or community college. A maximum of 24 units may be transferred for the Associate in Arts degree. No more than six units may be transferred into a graduate degree program in University College. Transfer credit will not be given for internships and independent studies, nor will it be given for grades below C- received at other institutions. A maximum of 30 units in transfer credit for online courses may be awarded for University College-approved course work from other appropriately accredited institutions. The combined total number of units accepted in transfer credit for online courses, College Level Examination Program, Advanced Placement, and International Baccalaureate may not exceed 30. Transfer credit for study abroad must be pre-approved by University College and the Office for International Students and Scholars. See page 12 for transfer credit policies and minimum grade requirements concerning the undergraduate writing requirement. To receive transfer credit, a student must be admitted to a University College degree or certificate program and submit official transcripts from all institutions previously attended. All records must be in English. International records must be evaluated for transfer credit by an accredited transcript evaluation agency. Advisors will evaluate transcripts to determine transfer credit and remaining course requirements toward a University College degree or certificate.

Advanced Courses

Students must complete a minimum of 30 units of advanced (300–400) courses at Washington University in order to receive the Bachelor of Science degree.

Residency Requirement

The final 36 units of course work toward the Associate in Arts degree or the Bachelor of Science degree must be completed at Washington University. At least half of the credits for the concentration (Associate in Arts) or major (Bachelor of Science) must be completed at Washington University. Students with a gap in their studies at University College for more than 10 years are required to meet the 36-unit residency requirement upon return. Fully online and blended online courses taught at Washington University will count toward the residency requirement in University College.

Repeating a Course

Students may repeat a course in which a grade of D or F was received (including 100- to 200-level courses with University College authorization), in which case only the most recent grade will be included in calculating your grade point average. Departmental permission is required. All enrollments will appear on your transcript, but the symbol “R” will replace the earlier grade for a repeated course if the grade in the second enrollment is equal to or higher than the grade in the first enrollment. A course may be repeated only once for credit.

Satisfactory Academic Progress, Academic Probation, and Suspension

To remain in good academic standing, an undergraduate student must maintain a 2.0 grade point average, a graduate student must maintain a 3.0 grade point average, and all certificate students must maintain a 3.0 grade point average. Additionally, in considering good academic standing, University College may take into account the extent to which a student’s educational and professional goals are consistent with the aims of the program to which the student is admitted. A student whose previous semester’s work is unsatisfactory, or whose cumulative record is unsatisfactory, or who has a history of failure to complete course work without adequate reason may be placed on academic probation. Students placed on academic probation are not in good academic standing. Probationary status serves to

warn a student who is not making satisfactory progress. Unless the quality of work improves during the next semester, a student may be suspended or dismissed from the program and future enrollment may not be allowed. University College reserves the right to cancel the registration of students who have been placed on academic suspension or dismissed. Subsequent re-admission will be determined on an individual basis.

Intent to Graduate and Commencement

All degree and certificate candidates must complete the Intent to Graduate form before their last semester. Candidates may file online or on paper. Forms and instructions with deadline dates are available in the University College office. Students are responsible for meeting the deadline for filing the Intent to Graduate. All graduates are invited to Commencement and recognition ceremonies in May when degrees are conferred and certificates presented.

Independent Study, Directed Research, and Internships

Through independent study or directed research, students may pursue topics of special interest under the supervision of a member of the faculty. Internships offer opportunities to apply classroom theory and concepts to practical work situations and to explore possible career directions. Students must submit a completed Independent Study form or Internship Learning Agreement to the University College office before registering. A maximum of six units of credit in independent work, including internships and study abroad, may count toward the Associate in Arts and Bachelor of Science degrees for students who complete 60 units or less at Washington University; students who earn more than 60 units at Washington University may do up to nine units of independent work. No more than six units of independent study, including internships and study abroad, may be

applied toward the major and no more than six units of independent study may be attempted in a single semester. Rules governing graduate credit for independent work vary according to each graduate program.

ACTRAC Accelerated Option

ACTRAC, the accelerated study option in University College, is available in most undergraduate majors and selected other courses for qualified students. Students choosing ACTRAC may receive one additional credit in a designated 300- or 400-level course by arranging with the instructor to do additional reading, research, and writing. ACTRAC requirements include admission to a University College undergraduate degree program, successful completion of at least 12 credits, 3.0 minimum grade point average, and University College verification and authorization. Students are charged tuition for four credits for an ACTRAC course.

Minor

A minor in University College consists of a minimum of 15 units of authorized course work in selected academic disciplines or interdisciplinary programs in University College. The course requirements for a minor are determined by each department or program.

At least nine units must be advanced course work (300 level or above), and at least six of the nine units in advanced course work must be completed at University College. A maximum of three units of transfer credit may be applied to the minor. A minor is available only to students admitted to a University College Bachelor of Science degree program. Course work taken as part of the minor may fulfill distribution requirements, but the same course may not apply to both a major and a minor. Only courses receiving a grade of C- or higher will be applied to the minor. In order to be awarded the minor, students must earn a cumulative grade point average of 3.0 or higher in all courses taken toward the minor. Students may not pursue a minor in an area for which a certificate is offered in University College. To declare a minor, submit a completed "Minor" form to an academic advisor in University College before beginning the final semester.

College Level Examination Program (CLEP)

University College will grant credit to students for successful completion of selected College Level Examination Program (CLEP) tests. University College does not award academic credit for experiential learning or community and business activities other than through CLEP examinations. For more detailed information about eligibility, selected exams, exam administration, minimum scores, and all other CLEP matters, contact University College at (314) 935-6700 or visit ucollege.wustl.edu.

Advanced Placement Credit

Students may receive a total of 15 units of advanced placement credit from standardized placement tests that were completed prior to being admitted to a University College undergraduate degree program. Units earned through advanced placement may apply toward University College distribution requirements. In order to receive advanced placement credit, submit official score reports from Advanced Placement Examinations, College Board Achievement and Aptitude Tests, the International Baccalaureate (higher levels), and British A-level examinations. The combined total number of units accepted in transfer credit for online courses, College Level Examination Program, Advanced Placement, and International Baccalaureate may not exceed 30.

Student Academic Records

A permanent record of courses, grades, and credit for each student is maintained in the Office of Student Records, which will issue official transcripts upon written authorization by the student. Transcript requests must include student's name, student number, date of birth, and approximate dates of attendance. Student records may be reviewed online at <https://acadinfo.wustl.edu>. The Family Educational Rights and Privacy Act of 1974 (FERPA) provides current and former students of the university with specific rights of access to and control over their student record information. A copy of the university policies and procedures regarding educational records and the release of student record information may be obtained from the Office of Student Records.

Academic Integrity

All University College students are governed by the University Student Judicial Code to ensure “the protection of the campus community and the maintenance of an environment conducive to learning and inquiry.” Among the forms of misconduct covered in the University Student Judicial Code is academic misconduct, “including, but not limited to, cheating, plagiarism, fabrication of data or records, unpermitted collaboration on assignments, misrepresentation of student status, résumé falsification, or otherwise violating the Academic Integrity Policy. Knowingly making false allegations of academic misconduct against any student will itself be considered a form of academic misconduct.”

All University College undergraduate students—part-time, full-time, degree seeking, and nondegree—are governed by the Undergraduate Student Academic Integrity Policy and the University College Undergraduate Student Academic Integrity Policy. If a student subject to the Washington University Undergraduate Student Academic Integrity Policy is alleged to have committed a violation of academic integrity, the case will generally be reviewed by the school or college in which the class is listed and taught, not the school in which the student is enrolled—though all violations and sanctions will also be reported to the student's college of enrollment. All allegations of violations of academic integrity concerning visiting students in University College, whether during the summer or academic year, should be referred to the Academic Integrity Officer in University College and are exceptions to the above rule. Violations of the Undergraduate Student Academic Integrity Policy include plagiarism, cheating on an examination, copying or collaborating on assignments without permission, fabrication or falsification of data or records, and other forms of deceit, dishonesty, or inappropriate conduct. Please see the detailed Undergraduate Student Academic Integrity Policy at Washington University for definitions and examples of each of these categories.

All University College graduate students are subject to the Graduate School of Arts & Sciences Academic and Professional Integrity Policy for Graduate Students and the University College Graduate Student Academic and Professional Integrity Policy. If a student enrolled in a graduate program administered through University College takes a course through University College and is accused of an academic integrity violation in that course, the student will be subject to the University College

Graduate Student Academic and Professional Integrity Policy. Note that those students enrolled in another graduate or professional school at Washington University will be subject to the academic and professional integrity policies and procedures applicable to their respective school. For example, if a student enrolled in the Graduate School of Arts & Sciences also takes a course through University College and is accused of an academic integrity violation in that course, the student will be subject to the Graduate School of Arts & Sciences Academic and Professional Integrity Policy for Graduate Students. Violations of the Graduate Student Academic and Professional Integrity Policy include plagiarism and other misappropriation of the work of another, cheating, copying or collaborating on assignments without permission, fabrication or falsification of data or records, research misconduct, obstruction of the academic activities of another, abuse of confidentiality, and other forms of deceit, dishonesty, or inappropriate conduct. Professional integrity violations consist of behavior that is inconsistent with ethical standards in the professional roles for which the student is being trained that are not covered by policies governing academic integrity. Please see the detailed Graduate School of Arts & Sciences Academic and Professional Integrity Policy for Graduate Students for definitions and examples of each of these categories.

All violations of academic integrity will be reported to and investigated by the academic integrity officer in University College. If it is determined that you have acted dishonestly, or even if you have admitted the charges prior to a formal investigation or hearing, an appropriate sanction will be imposed, including, but not limited to, automatic failure of the assignment or course, or, in the case of serious or repeat violations, suspension or expulsion from the university. Withdrawing from a course will not prevent the dean from imposing or recommending sanctions.

Academic Advising and Academic Support Services

University College recognizes the rich array of backgrounds and experiences adult learners bring to the classroom and is aware that adults entering or returning to higher education may need academic counseling, guidance, and special services. Information on University College degree and certificate pro-

grams and courses is available on our website, ucollege.wustl.edu. Students are encouraged to meet with an academic advisor to discuss academic goals and interests prior to submitting an application for admission. Advisors are available to provide guidance and information about admissions, transfer and registration procedures, academic and degree requirements, course selection, special programs, student services, and other facets of Washington University. After being admitted to a degree or certificate program, students should consult with the advisor on a regular basis to discuss course sequences, degree requirements, policies, and other important information related to the particular program of study. It is the responsibility of the student to arrange for these periodic conferences. For information about advising and all student services, call the University College Office of Admissions and Student Services, (314) 935-6777, or visit us at ucollege.wustl.edu.

Honors & Awards

Undergraduate Honors Program

The Undergraduate Honors Program in University College offers high-achieving students the opportunity to join a learning community dedicated to an exceptionally rigorous, flexible, and independent program of study that takes advantage of courses and services across Washington University. Upon completion of the Honors Program, eligible students will be awarded the BS cum laude, magna cum laude, or summa cum laude through achievement of minimum cumulative averages of 3.65, 3.75, or 3.85 respectively; recommendation by the academic department or program; and evaluation of the research and writing projects. See page 25 for more information.

Alpha Sigma Lambda

Alpha Sigma Lambda, the national honorary society for part-time evening students, is available to qualified University College students. To be eligible for membership, a student must have earned a grade point average of at least 3.5 in a minimum of 24 units of course work in residence, toward a degree in University College with at least 12 units in liberal arts and sciences.

Phi Beta Kappa

For more than 200 years, election to Phi Beta Kappa has been a distinctive recognition of intellectual accomplishment in the liberal arts and sciences. Candidates for Phi Beta Kappa should have demonstrated superior scholarship as well as breadth and depth of interest in the liberal arts. Study of a foreign language and of mathematics, while not required, strongly enhances candidacy. Additionally, at least 112 credits must be completed by the end of the fall semester, at least 45 of which must be earned at Washington University.

Dean's List

Recognition on the Dean's List is given to students who are undergraduate degree or certificate candidates in University College who have completed a minimum of six units of course work at Washington University in the preceding fall or spring semester with at least a 3.6 grade point average.

Final Honors

Undergraduate degree recipients with superior records will be recognized with Final Honors at the time of graduation. Final Honors are calculated by a formula based on number of credits and grades earned in University College.

Dean's Award for Academic Excellence

The Dean's Award for Academic Excellence is given to one or more graduating undergraduate students with outstanding academic records, measured by, but not limited to, the grade point average.

Dean's Award for University Service

The Dean's Award for University Service is awarded to one or more graduating students who have made a significant contribution to University College and Washington University in areas beyond academic performance.

Dean's Faculty Award

The Dean's Faculty Award is normally given to a University College instructor with many years of service to recognize excellence in teaching and dedication to University College students.



TUITION AND FINANCIAL INFORMATION

University College is affordable, enabling students to pursue a Washington University education at a fraction of the cost of a full-time day program.

Tuition and Fees

Tuition rates for University College undergraduate and graduate courses can be found in the fall, spring, and summer Course Schedules and online at ucollege.wustl.edu/tuition. Tuition and lab or materials fees vary according to course and program.

Tuition Payment

All tuition and fees must be paid in full at the time of registration. Acceptable methods of payment include cash, check, credit card, approved financial aid, and approved employer tuition reimbursement plans.

Refunds

Refunds are calculated from the date the student completes a course change online. Refunds are sent via check or credited back to the credit card that was previously charged. Check refunds can be picked up at Student Financial Services in North Brookings Hall. Checks not picked up within two weeks are mailed to the student's local address. More information can be found in the fall, spring, and summer Course Schedules and online at ucollege.wustl.edu/tuition/refunds.

Financial Assistance

University College students—part-time and full-time—who are admitted to a degree or certificate program may be eligible for financial assistance in the form of grants, loans, and scholarships. Visit ucollege.wustl.edu/financial/sources. You can learn more about financial assistance options and obtain the appropriate forms by contacting the financial aid coordinator in University College at (314) 935-6742. If you receive any type of financial

assistance through University College, you must meet the academic standing and satisfactory progress requirements as defined by the particular assistance program and Student Financial Services.

Satisfactory Academic Progress

Federal and state regulations require that educational institutions measure students' academic progress toward a declared educational objective. To remain eligible and retain disbursed federal and state financial aid, students must maintain satisfactory academic progress (SAP). To remain in good standing, students must satisfy the following requirements: undergraduate students must be on pace to complete their program by attempting no more than 150% of the credits required to meet their program requirements with a C (2.0) minimum grade point average; graduate students must be on pace to complete their program by attempting no more than 150% of the credits required to meet their program requirements with a B (3.0) minimum grade point average. In addition, all students receiving financial aid are reviewed on a case-by-case basis to ensure a significant portion of enrolled courses have been successfully completed. For more information, visit ucollege.wustl.edu/financial.

Other Financial Assistance and Payment Options

Half Tuition for Individuals 60 and Over: This discount applies to most University College for-credit courses. Verification of age must be provided at the time of registration.

Washington University Employees: Washington University provides its employees with tuition assistance to foster their continuing education. Full-time employees with one year of service are eligible for 100% tuition remission on for-credit undergraduate courses and 50% tuition remission on for-credit graduate courses starting after 4 p.m. Remission covers a maximum of seven credits per semester, and the student must obtain a passing grade to

retain the tuition remission. For more information, visit ucollege.wustl.edu/tuition/remission/employee.

Postdoctoral Appointees: Postdoctoral appointees appointed under the Postdoctoral Education Policy (effective July 1, 2004) having the titles of Postdoctoral Research Associate or Scholar are eligible for the Postdoctoral Tuition Plan. Remission covers a maximum of 4 credits per semester and must be undergraduate level (400 and below) and for career development purposes only. A passing grade in the course is required to retain the tuition remission. For more information, visit ucollege.wustl.edu/tuition/remission/employee.

Company-Sponsored Tuition Payment Plans: Many companies in the St. Louis area pay all or part of their employees' tuition. Contact your supervisor or human resources department at your place of employment to determine if a tuition reimbursement plan is available. If your employer agrees to pay all or part of your tuition, submit your company's tuition reimbursement policy, verification of your eligibility, and the University College Intent to Pay form. Payment is due approximately 30 days after the end of the semester. This payment option is not available during the summer. For more information, visit ucollege.wustl.edu/tuition/payment.

University City Teachers: Teachers in the University City school district may take University College courses at a substantial discount. Verification of employment must be presented at the time of registration. For more information, call (314) 935-6700.

Veterans: Individuals attending under the VA program must submit a Certificate of Eligibility, and those using Post 9/11 benefits must apply or be accepted to a degree or certificate program. University College participates in the Yellow Ribbon GI Education Enhancement Program, established in 2008. Those who qualify for the Yellow Ribbon benefits can attend University College full time with no out-of-pocket expenses for tuition and mandatory fees. For more information, visit ucollege.wustl.edu/yellowribbon.



UNIVERSITY POLICIES

Sexual Harassment

Washington University is committed to having a positive learning and working environment for its students, faculty, and staff and will not tolerate sexual harassment. Sexual harassment is a form of discrimination that violates university policy. It is also illegal under state and federal law. Washington University has adapted the Equal Employment Opportunity Commission (EEOC) definition of sexual harassment for an academic community: Sexual harassment is defined as any unwelcome sexual advance, request for sexual favor or other unwelcome verbal or physical conduct of a sexual nature, including sexual violence, whether committed on or off campus. This policy applies to all members of the Washington University community. It allocates responsibilities for helping to ensure that university policy is fairly applied, explains the process by which complaints of sexual harassment may be brought forward, and provides sanctions for sexual harassment, which may range from reprimands to termination or dismissal, depending upon the severity of the offense. Anyone who believes he or she has been subjected to harassing behavior is encouraged to discuss the nature of the conduct and possible remedies with the dean by calling (314) 935-4806. Please visit hr.wustl.edu/policies/Pages/SexualHarassment for the complete Policy on Sexual Harassment.

Discrimination and Discriminatory 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, gender, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information. Harassment based on any of these classifications violates university policy and will not be tolerated. In some circumstances such harassment may also violate federal, state, or local law. Discriminatory harassment is unwelcome and objectively offensive conduct

that (a) has the purpose or effect of unreasonably interfering with an individual's work or educational environment, (b) is directed at a particular individual or individuals because of the individual's/individuals' race, color, age, religion, gender, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information, and (c) is abusive or severely humiliating. Some conduct obviously constitutes harassment, such as a statement that all members of a disfavored group will be required to work in the basement because their supervisor does not, on the basis of their group membership, want to be near them. Whether particular conduct constitutes harassment often depends on the specific context of the situation, including the participants' reasonable understanding of the situation, their past dealings with each other, the nature of their professional relationship (for example, supervisor–subordinate, colleague), and the specific setting. Please visit hr.wustl.edu/policies/Pages/DiscriminatoryHarassment.aspx for the complete Policy on Discriminatory Harassment.

Student Conduct

University College students are expected to conduct themselves responsibly on the Washington University premises and comply with the regulations of the university. Improper conduct is subject to the disciplinary procedures outlined in the University Student Judicial Code. Please see wustl.edu/policies/judicial.html. University College reserves the right to cancel the registration of and refuse future registration to any student whose presence is not, in the opinion of university authorities, conducive to the best interests of the university.

University College Administration

Robert Wiltenburg, *Dean of University College*

Steven Ehrlich, *Associate Dean for Academics*

Patricia Matthews, *Associate Dean and Director of the Summer School*

Elizabeth Fogt, *Director of Advising and Student Services*

Maria Hunter, *Registrar*

Karen Novak, *Director of Administration, Finance, and Operations*

Catherine Compton, *Executive Director, Lifelong Learning Institute*

Carl Williams, *Financial Aid Coordinator and Academic Advisor*

Shawn Cummings, *Academic Advisor and Pre-Health Coordinator*

Elisa Wang, *Coordinator of Undergraduate Advising and Student Services*

Officers of Washington University

Mark S. Wrighton, *Hudson E. Bridge Chancellor*

H. Holden Thorp, *Provost, Executive Vice Chancellor for Academic Affairs*

David T. Blasingame, *Executive Vice Chancellor for Alumni and Development Programs*

Michael R. Cannon, *Executive Vice Chancellor and General Counsel*

Larry J. Shapiro, *Executive Vice Chancellor for Medical Affairs and Dean, School of Medicine*

Henry S. Webber, *Executive Vice Chancellor for Administration*

John A. Berg, *Vice Chancellor for Admissions*

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