Linguistics

At Washington University, the Linguistics program offers an undergraduate major and minor. The core of the Linguistics program focuses on the study of how languages are structured. Students examine how words are built from sounds, how sentences are built from words, and how all of this structure manages to communicate meaning. With a good understanding of these formal properties, students can pursue other questions about language. How does language change over time? Do diverse languages have more in common than meets the eye? What functions does language play in society? What is its relation to thought? What are its biological and psychological underpinnings? And just how do children manage to acquire language so well in the first place?

Linguistics takes a scientific approach to the study of language and develops skills in data analysis and scientific experimental methods. Linguistics students may or may not speak many languages, but they definitely will learn how to collect and analyze data about languages in an effort to answer these questions.

Contact: Brett Hyde
Phone: 314-935-7612
Email: bhyde@wustl.edu
Website: http://linguistics.wustl.edu

Faculty

Director

Brett D. Hyde (https://artsci.wustl.edu/faculty-staff/brett-hyde/)
Associate Professor
PhD, Rutgers University
(Linguistics, Philosophy, Philosophy-Neuroscience-Psychology)

Core Faculty

Matthew Barros (https://linguistics.wustl.edu/people/matt-barros/)
Lecturer
PhD, Rutgers University
(Linguistics)

Nicholas Danis (https://linguistics.wustl.edu/people/nick-danis/)
Lecturer
PhD, Rutgers University
(Linguistics)

Kristin J. Van Engen (https://sites.wustl.edu/psychling/)
Assistant Professor
PhD, Northwestern University
(Linguistics, Psychology)

Participating Faculty

David A. Balota (http://psychweb.wustl.edu/people/david-balota/)
Professor
PhD, University of South Carolina
(Psychology, Neurology)

Joe Barcroft (https://rll.wustl.edu/people/joe-barcroft/)
Professor
PhD, University of Illinois at Urbana-Champaign
(Romance Languages and Literatures)

John Baugh (https://anthropology.wustl.edu/people/john-baugh/)
Margaret Bush Wilson Professor in Arts & Sciences
PhD, University of Pennsylvania
(Anthropology, Education, English, Psychology)

Jonathan Peelle (http://jonathanpeelle.net/)
Research Assistant Professor
PhD, Brandeis University
(Otolaryngology)

Mitchell S. Sommers (https://psych.wustl.edu/people/mitchell-sommers/)
Professor
PhD, University of Michigan
(Psychology)

Rebecca Treiman (https://artsci.wustl.edu/faculty-staff/rebecca-treiman/)
Burke and Elizabeth High Baker Professor of Child Developmental Psychology
PhD, University of Pennsylvania
(Psychology)

Gerhild Williams (https://german.wustl.edu/people/gerhild-williams/)
Barbara Schaps Thomas and David M. Thomas Professor in the Humanities
PhD, University of Washington, Seattle
(German)

Emeritus Faculty

Brett Kessler (http://spell.psychology.wustl.edu/bkessler.html)
PhD, Stanford University

Majors

The Major in Linguistics

Total units required: 30 units, at least 24 of which must be from courses at the 300 level or higher
Required courses: 18 units
### Elective courses: 12 units

Students select 12 units from the courses listed below. At least 9 units must be at the 300 level or higher. At most, 6 units may be drawn from Ling 499 Independent Work For Senior Honors, Ling 500 Independent Study, and cross-listed courses that are not home-based in the Linguistics program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Ling 148</td>
<td>First-Year Seminar: The Linguistics of Constructed Languages</td>
<td>3</td>
</tr>
<tr>
<td>Ling 225D</td>
<td>Latin and Greek in Current English</td>
<td>3</td>
</tr>
<tr>
<td>Ling 258</td>
<td>Methods in Linguistic Research</td>
<td>3</td>
</tr>
<tr>
<td>Ling 263</td>
<td>Linguistics for Legal Purposes</td>
<td>3</td>
</tr>
<tr>
<td>Ling 315</td>
<td>Morphology</td>
<td>3</td>
</tr>
<tr>
<td>Ling 320</td>
<td>Historical and Comparative Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Ling 339</td>
<td>Introduction to Sociolinguistics</td>
<td>3</td>
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<tr>
<td>Ling 340</td>
<td>Linguistic Pragmatics</td>
<td>3</td>
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<tr>
<td>Ling 341</td>
<td>Linguistic Diversity in the United States</td>
<td>3</td>
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<tr>
<td>Psych 358</td>
<td>Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>Ling 396</td>
<td>Linguistics Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Ling 396W</td>
<td>Linguistics Seminar: Writing Intensive</td>
<td>3</td>
</tr>
<tr>
<td>Ling 408</td>
<td>Psychology of Language</td>
<td>3</td>
</tr>
<tr>
<td>Ling 427</td>
<td>Computation and Learnability in Linguistic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Ling 466</td>
<td>Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>Ling 495</td>
<td>Senior Seminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Ling 499</td>
<td>Independent Work For Senior Honors</td>
<td>3-6</td>
</tr>
<tr>
<td>Ling 500</td>
<td>Independent Study</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Total Units: 18**

### Additional Information

**Capstone:** Primary majors must complete a capstone project. The capstone project is normally done during the senior year while taking Ling 320 Historical and Comparative Linguistics, Ling 495 Senior Seminar in Linguistics, Ling 499 Independent Work For Senior Honors, or Ling 500 Independent Study. Students wishing to count Ling 500 Independent Study for their capstone need to have their independent studies approved in advance by the director of the Linguistics program.

**Senior Honors:** Students with a university grade point average of 3.65 or higher and a linguistics GPA of 3.65 or higher at the end of their junior year may apply to enter the honors program by submitting a proposal for a senior thesis. If admitted into the program, the student registers for 3 units of Ling 499 Independent Work For Senior Honors during each semester of their senior year. The student must complete the thesis and pass an oral defense by the middle of March of their senior year.

### Minors

**The Minor in Linguistics**

**Total units required:** 15 units, at least 9 of which must be from courses at the 300 level or higher

**Required course:** 3 units

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Ling 170D</td>
<td>Introduction to Linguistics</td>
<td>3</td>
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</tbody>
</table>

**Elective courses:** 12 units

At least 6 units must come from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Ling 309</td>
<td>Syntactic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Ling 311</td>
<td>Introduction to Semantics</td>
<td>3</td>
</tr>
<tr>
<td>Ling 312</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>Ling 313</td>
<td>Phonological Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Ling 317</td>
<td>Introduction to Computational Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining elective units may be drawn from any course acceptable as an elective for the major.

### Courses

Visit online course listings to view semester offerings for L44 Ling (https://courses.wustl.edu/CourseInfo.aspx?sch=L&dept=L44&crslvl=1-4).

**L44 Ling 1036 First Year Seminar: Storming Off and Slaying Serpents: Linguistic Approaches to Comparative Mythology**

This course is an introduction to comparative mythology through the lens of linguistic theory. As all of our most ancient mythological narratives are poetic and given that the production of poetic texts is a fundamentally linguistic enterprise—students will acquire the linguistic skills necessary to fully engage with and analyze the language of ancient mythological texts.

Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC EN: S
in Phil 100. In the second half of the course, we will go on to study
theory and metatheory for first-order logic in much greater depth than
functional and first-order classical logics, including studying the model
formulation of affidavits and the production of legal opinions derived
from diverse linguistic analyses.

In the first half of the course, we will be studying some features of truth-
fication. This course explores the core components of linguistic
theory: speech sounds (phonetics and phonology), word formation
(morphology), sentence structure (syntax) and meaning (semantics).
It also provides an overview of interdisciplinary ideas and research on
how language is acquired and processed, its relation to the mind-brain
and to society, and the question of whether the essential properties of
language can be replicated outside the human mind (specifically, in
chimpanzees or computer programs).

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

L44 Ling 306G Philosophy of Language
A survey of major philosophical problems concerning meaning,
reference, and truth as they have been addressed within the analytic
tradition. Readings that represent diverse positions on these focal
issues will be selected from the work of leading philosophers in the
field, for example: Frege, Russell, Wittgenstein, Davidson, Quine, Kripke,
and Putnam. Students are encouraged to engage critically the ideas
and arguments presented, and to develop and defend their own views
on the core topics. Prerequisite: one course in Philosophy at the 100
or 200 level, or permission of the instructor. Priority given to majors in
philosophy and PNP. Same as L30 Phil 301G

Credit 3 units. A&S IQ: NSM, AN Arch: NSM Art: NSM BU: HUM

L44 Ling 309 Syntactic Analysis
The ability to produce and understand an infinite number of sentences
is perhaps the most fascinating aspect of the human language faculty.
Syntax is the study of how the brain organizes sentences from smaller
phrases and words. This course explores syntactic analysis from several
perspectives within generative linguistics, focusing primarily on the
Government and Binding framework but also introducing Minimalist
and Optimality Theoretic approaches. Topics discussed include phrase
structure, transformations, case theory, thematic roles and anaphora.
Assignments help students learn to construct and compare analyses of
syntactic problems in English and other languages. Prerequisite: Ling
170D or 440, or permission of instructor.

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

L44 Ling 311 Introduction to Semantics
Semantics is the branch of linguistics that studies how speakers
assign meaning to words, sentences and larger units of discourse. We
combine perspectives from both linguistics and philosophy to explore
a variety of topics including polysemy, compositionality, quantification,
anaphora, definite descriptions, attitude reports, presupposition and
implicature. Prerequisite: Ling 170D or Phil 301G or permission of
instructor.

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

L44 Ling 312 Phonetics
Phonetics is the study of the sounds of the languages of the world. The
primary goal of the course is to learn how speech sounds are produced,
so that the student can describe them in articulatory terms, write them
out in a standard notational system, and produce them accurately.
Other topics include a basic introduction to the acoustics of speech
and the use of personal computers to display, analyze and synthesize
human speech. The course should prove useful to students desiring
a deeper understanding of one of the fundamental underpinnings of
linguistics, but also has practical applications in such fields as foreign
language learning and the appreciation and acquisition of new dialects
and accents. Prerequisite: Ling 170D or permission of instructor.

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

L44 Ling 313 Phonological Analysis
There are several important abilities involved in the use of human
language, one of these being the ability to organize speech sounds.
The system that the brain uses to accomplish this task is the subject
matter of phonology. This course explores phonology from several
perspectives within generative linguistics, including both traditional
rule-based and current Optimality Theoretic approaches. Topics discussed include phonological features, lexical phonology, prosodic morphology, tone and metrical stress. Assignments help students learn to analyze phonological problems in a variety of languages and to evaluate the consequences of using different analytic approaches. Prerequisite: Ling 170D or 440, or permission of instructor. Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC BU: BA EN: S

**L44 Ling 315 Morphology**
Concepts covered: morphemic analysis and investigation of morphological processes. Additional topics may include relationship of morphology to language-typology and to syntax. Prerequisite: Ling 170D, or permission of instructor. Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC BU: HUM EN: S

**L44 Ling 317 Introduction to Computational Linguistics**
Use of computers to analyze, understand and generate human language. Emphasis on appreciating practical applications such as text analysis; search and creation of dictionaries and corpora; information retrieval; machine translation; and speech interfaces. Survey of rule-based and statistical techniques. Students acquire programming skills appropriate for solving small- to medium-scale problems in linguistics and text processing, using a language such as Python. Students have regular programming assignments and complete a semester project. No previous knowledge of programming required. Prerequisites: Ling 170D or permission of instructor. Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC BU: HUM EN: S

**L44 Ling 320 Historical and Comparative Linguistics**
Historical linguistics focuses on how languages change over time. Comparative linguistics focuses on their similarities and differences. In this course we trace some of the differences and changes in sound (phonetics and phonology), word formation (morphology), sentence structure (syntax) and meaning (semantics). Topics include linguistic universals; the structural and genetic classification of languages; the techniques of reconstructing proto-languages; and the causes of language change. Examples from Indo-European languages (for example, Greek, English and Spanish) and from Native American languages (for example, Quechua and Mayan) are emphasized. Prerequisite: Ling 170D. Credit 3 units. A&S IQ: LCD, SSC Arch: SSC Art: SSC BU: HUM EN: S

**L44 Ling 329 Introduction to Sociolinguistics**
Studies of language in social context are presented, including research related to diglossia, bilingualism, pidginization, creolization and dialectology. Discourse analyses and conversational analyses of face-to-face conversation are examined in methodological and analytical terms. Beyond assigned readings, critical discourse analyses, the ethnography of speaking, the sociology of language, and accommodation theory are also considered. Students are required to develop a course project related to one or more studies of language in use. Experimental studies of sociophonetics and sociohistorical linguistics are presented during lectures to demonstrate advanced interdisciplinary research with potential educational and legal relevance. Prerequisite: Ling 170D. Credit 3 units. A&S IQ: SSC, SC, SD Arch: SSC Art: SSC BU: HUM EN: S

**L44 Ling 340 Linguistic Pragmatics**
Discourse analysis and pragmatics are the subfields of linguistics that investigate language as it is used in real-life contexts. The focus of this course is on the following question: What do people do with language, and how do they do it? One goal is to demonstrate how the results of such investigations are relevant for a number of concrete problems in human communication. Some of the more specific questions we will explore are as follows: What distinguishes discourse analysis and pragmatics from each other? What is their relation to the other branches of linguistics? How can the two fields contribute to the establishment of a paradigm for interdisciplinary and intercultural studies? Prerequisite: Ling 170D or permission of instructor. Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC BU: HUM EN: S

**L44 Ling 341 Linguistic Diversity in the United States**
Linguistic diversity has always existed within the United States, and this course begins with a survey of many of the indigenous Native American languages that existed prior to European colonization. The emphasis of this course is linguistic research, as we examine diverse studies of language across the nation with respect to regional differences, racial and ethnic differences, historical differences, and differences in education and economic status. American bilingualism is explored, as are many of the dialects that have evolved in different parts of the nation. Students study a range of sophisticated linguistic analyses of language diversity in different parts of the United States at different points in the nation’s history. The culmination of the course explores practical linguistic applications in legal and educational contexts. Prerequisites: Ling 170D and some familiarity with elementary statistics. Credit 3 units. A&S IQ: SSC, SC, SD Arch: SSC Art: SSC BU: BA EN: S

**L44 Ling 3701 Introduction to Hispanic Linguistics**
An introduction to the scientific study of the Spanish language, this course focuses on each of the major linguistic subsystems, including the sound system (phonetics and phonology), word formation (morphology), formation of phrases and sentences (syntax), and the use of the language to convey meaning (semantics and pragmatics). At each level of analysis, selected comparisons are made between Spanish and English and between Spanish and other languages. The course also examines different historical, regional and social varieties of Spanish and situations of Spanish in contact with other languages. Same as L38 Span 370 Credit 3 units. A&S IQ: LCD BU: HUM EN: H

**L44 Ling 390 Linguistics Service Learning I**
Because language is fundamental to human communication, differences in language can present particularly difficult barriers to learning. Taking classes in a language that is not your native language, for example, presents special challenges both to students and their teachers. For speakers of nonstandard dialects, taking classes in a standard dialect presents subtler — and in some ways, even more difficult — challenges. This course provides students with a concrete understanding of the practical difficulties arising from linguistic differences and helps them discover ways in which these difficulties can be addressed. In particular, students are expected to devote two hours per week tutoring local K-12 students and to keep a journal focusing on their experiences from a linguistic perspective. Students will be expected to attend weekly meetings with faculty and community partners to relate challenges that they have encountered and to discuss possible solutions. Students will also receive training on how to better understand and serve under-sourced and diverse populations. Prerequisite: at least two 300-level courses in Linguistics or permission of the instructors. Credit 3 units. A&S IQ: SSC BU: HUM EN: S

**L44 Ling 391 Linguistics Service Learning II**
Linguistics Service Learning II meets with Linguistics Service Learning I, but it requires completion of additional written assignments. Prerequisite: Ling 390. Credit 3 units. A&S IQ: SSC BU: HUM EN: S

**L44 Ling 396 Linguistics Seminar**
Readings on a selected topic in theoretical linguistics with an emphasis on discussion, presentation and writing. Prerequisite: varies with topic.
L44 Ling 396W Linguistics Seminar: Writing Intensive
Readings on a selected topic in theoretical linguistics, with an emphasis on discussion, presentation, and writing. Prerequisite: varies with topic. Credit 3 units. A&S IQ: SSC; WI Arch: SSC; BU: HUM; EN: S

L44 Ling 408 Psychology of Language
This course surveys current research and theory in psycholinguistics, covering the biological bases, cognitive bases and learning of language. We consider studies of normal children and adults, the performance of individuals with various types of language disorders, and computer simulations of language processes. Topics range from the perception and production of speech sounds to the management of conversations. Each student carries out an original research project on some aspect of psycholinguistics. Prerequisites: Ling 170D and Psych 100B. Same as L33 Psych 433
Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC EN: S

L44 Ling 427 Computation and Learnability in Linguistic Theory
This course introduces the advanced linguistics or computer science student to the fields of learnability and computation as they apply to the study of linguistic theories and natural language. Topics covered include the formal language hierarchy, including the subregular languages; issues in the learnability of phonology, morphology, and syntax; and algorithms specific to constraint-based linguistic grammars. Prerequisites: either CS 130 or Ling 317 and at least one of the following: Ling 309, Ling 311, Ling 313, or Ling 315.
Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC EN: S

L44 Ling 466 Second Language Acquisition
There are many ways in which a second language can be learned: from infancy as the child of bilingual parents, or later through formal instruction, immersion in a new culture, or in a particular work or social situation. This class is an inquiry into the processes by which acquisition occurs. Topics include the nature of language learning within the scope of other types of human learning; the relationship between first- and second-language acquisition; the role of linguistic, cognitive and sociocultural factors; insights gained from analyzing learners’ errors; key concepts such as interlanguage and communicative competence; bilingualism; the optimal age for second-language acquisition; and a critical appraisal of different theories of second-language acquisition. Both theoretical and instructional implications of second-language acquisition research are considered. This course can be used toward certification in TESOL and is a required course for the Graduate Certificate in Language Instruction. Prerequisite: Ling 170D or equivalent is recommended, especially for undergraduates, but is not required.
Credit 3 units. A&S IQ: HUM Arch: HUM Art: HUM EN: H

L44 Ling 499 Independent Work For Senior Honors
Prerequisites: senior standing and permission of the Linguistics program.
Credit variable, maximum 6 units.

L44 Ling 495 Senior Seminar in Linguistics
The Senior Seminar affords students an opportunity to integrate the various fields of linguistics. Readings, discussions and presentations let students address issues that combine the content and the research methods of areas such as phonetics, phonology, morphology, syntax, diachrony and semantics. Students have individual projects within the scope of the semester’s particular topic, but the class as a whole helps in choosing, developing and refining the treatment. This course fulfills the requirement for a senior capstone for primary majors in linguistics. It is the normal option for students who wish to take the capstone as a regular class rather than as sponsored independent study.
Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC EN: S

L44 Ling 478 Topics in Linguistics
Same as L38 Span 4691
Credit 3 units. A&S IQ: SSC EN: S

L44 Ling 497 Senior Honors Project
Meets with designated linguistics course, but with additional writing and research required for graduate credit and certification.
Credit 3 units. A&S IQ: SSC Arch: SSC Art: SSC EN: S