Department of Language Science

Lisa Pearl, Department Chair
2314 Social & Behavioral Sciences Gateway
949-824-2307
https://www.langsci.uci.edu/

Overview

Language is a system of communication with an extraordinarily intricate structure. The scientific study of the mental representations and biological basis of language involves many questions, including what the nature of this system is, how humans master it so early in their cognitive development, how humans use it to communicate, and how it is implemented in human biology.

The Department offers an undergraduate minor and undergraduate courses.

B.A. in Language Science

The B.A. in Language Science provides students with an interdisciplinary foundation in the scientific study of language, including its mental representations, its development and use, and its biological basis.

Students completing the B.A. in Language Science combine interests in theoretical linguistics, language development and use, the advanced study of natural or formal languages, and some combination of neuroscience, psychology, logic, computer science, anthropology, education, and hearing and speech sciences. In the process of relating these interests to the scientific study of language and its applications, students develop an understanding of the analytical tools of formal language study.

Graduates have an interdisciplinary language science background that makes them attractive for a variety of careers, including teaching, language technology industry positions, teaching English as a second language abroad, interpreting and translation, technical writing, language consulting for legal firms and medical practices, and advertising, among many others.

This foundation in formal and applied language science also prepares graduates for graduate and professional programs in any of the areas related to languages science, including speech-language pathology, linguistics, cognitive science, cognitive neuroscience, developmental psychology, natural language processing, and education.

Requirements for the B.A. in Language Science

All students must meet the University Requirements.
All students must meet the School Requirements.

Core
A. Complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 3</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>LINGUIS 10</td>
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</tr>
<tr>
<td>LINGUIS 20</td>
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</tr>
<tr>
<td>LINGUIS 43</td>
<td>Introduction to Symbolic Logic</td>
</tr>
<tr>
<td>LINGUIS 51</td>
<td>Acquisition of Language</td>
</tr>
</tbody>
</table>

Natural/Formal Language
B. Select two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>LINGUIS 164A</td>
<td>Topics in Romance Languages</td>
</tr>
<tr>
<td>SPANISH 113A</td>
<td>Spanish Phonetics</td>
</tr>
<tr>
<td>SPANISH 113B</td>
<td>Introduction to Spanish Linguistics</td>
</tr>
<tr>
<td>GERMAN 104</td>
<td>Topics in German Linguistics</td>
</tr>
<tr>
<td>Any &quot;3-level&quot; non-English language course</td>
<td></td>
</tr>
</tbody>
</table>

Logic and Computation
C. Select five courses from the following:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>LINGUIS 102</td>
<td>Formal Languages and Automata</td>
</tr>
<tr>
<td>LINGUIS 142</td>
<td>Introduction to Logic</td>
</tr>
<tr>
<td>LINGUIS 145A</td>
<td>Elementary Set Theory</td>
</tr>
</tbody>
</table>

Additional Core
C. Select five courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>LINGUIS 1</td>
<td>Languages of the World</td>
</tr>
</tbody>
</table>
### A 199 course affiliated with the Language Science Program, or a research course.

### Specializations

D. Select four courses from the following. Courses must come from at least two of the categories listed below:

#### I. Theoretical

- **LINGUIS 112**  
  Advanced Phonology
- **LINGUIS 119**  
  Special Topics in Phonetics/Phonology
- **LINGUIS 124**  
  Current Topics in Syntactic Theory
- **LINGUIS 129**  
  Special Topics in Syntax
- **LINGUIS 141**  
  Topics in Philosophy of Language
- **LINGUIS 149**  
  Special Topics in Semantics
- **LINGUIS 176**  
  Introduction to Pidgins and Creoles
- **SPANISH 187**  
  Selected Topics in Spanish Linguistics

#### II. Behavioral and Neuroscientific

- **LINGUIS 151B**  
  Bilingual Acquisition
- **LINGUIS 151S**  
  Second Language Acquisition
- **LINGUIS 159**  
  Special Topics in Psycholinguistics
- **LINGUIS 165L**  
  Language Change, Acquisition, and Complexity
- **LINGUIS 175**  
  Language Origins: Evolution, Genetics, and the Brain

#### III. Computational

- **LINGUIS 107M**  
  Computational Methods for Language Research
- **LINGUIS 109**  
  Special Topics in Computational Linguistics
- **COMPSCI 142A**  
  Compilers and Interpreters
- **COMPSCI 142B**  
  Language Processor Construction
- **COMPSCI 171**  
  Introduction to Artificial Intelligence
- **COMPSCI 177**  
  Applications of Probability in Computer Science

#### IV. Applied

- **PSYCH 131B**  
  Hearing
- **PSYCH 161H**  
  Hearing and the Brain
- **PSYCH 141J**  
  Jumpstart I: Early Language, Literacy, and Social Development
- **PSYCH 141K**  
  Jumpstart I: Early Language, Literacy, and Social Development
- **PSYCH 141L**  
  Jumpstart I: Early Language, Literacy, and Social Development
- **PSYCH 141M**  
  Jumpstart II: Early Language, Literacy, and Social Development
- **PSYCH 141N**  
  Jumpstart II: Early Language, Literacy, and Social Development
- **PSYCH 141O**  
  Jumpstart II: Early Language, Literacy, and Social Development
- **PSYCH 141P**  
  Jumpstart III: Early Language, Literacy, and Social Development
- **PSYCH 141Q**  
  Jumpstart III: Early Language, Literacy, and Social Development
- **PSYCH 141R**  
  Jumpstart III: Early Language, Literacy, and Social Development
- **MUSIC 158A-158B-158C**  
  Diction and Diction and Diction
EDUC 134  Teaching English Internationally
EDUC 151  Language and Literacy
BME 148  Microimplants
DRAMA 35  Speech for the Theatre
CHINESE 100A-100B-100C  Classical Chinese and Classical Chinese
E ASIAN 125  Topics in East Asian Applied Linguistics

Minor in Linguistics

Linguistics Minor Requirements

Requirements for the minor in Linguistics are met by taking seven linguistics courses (28 units) as specified below:

A. Complete the following:

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B. Four additional linguistics courses, three of which must be upper-division.

Residence Requirement: At least three upper-division courses required for the minor must be completed successfully at UCI.

Faculty

Alyssa Brewer, Ph.D. Stanford University, Associate Professor of Cognitive Sciences; Linguistics (neuroimaging of visual perception, visual deficits, neurological disorders)

Gregory S. Hickok, Ph.D. Brandeis University, Professor of Cognitive Sciences; Linguistics (neuroanatomy of language, neural plasticity, neuroimaging, cognitive neuroscience)

Kent E. Johnson, Ph.D. Rutgers, The State University of New Jersey, Associate Professor of Logic and Philosophy of Science; Linguistics

Glenn S. Levine, Ph.D. University of Texas at Austin, German Language Program Director and Professor of German; Education; Linguistics (applied linguistics, foreign language pedagogy, German-Jewish culture and history, Yiddish language and culture, European culinary history)

Virginia Mann, Ph.D. Massachusetts Institute of Technology, Professor of Linguistics; Education (reading ability: phoneme awareness, developmental dyslexia, phonological skills, early intervention, precocious readers; speech perception: context effects, cross-linguistic comparisons)

John Middlebrooks, Ph.D. University of California, San Francisco, Professor of Otolaryngology; Biomedical Engineering; Cognitive Sciences; Linguistics; Neurobiology and Behavior (hearing research, neurophysiology, psychophysics, auditory prosthesis, computational neuroscience)

Keith Murphy, Ph.D. University of California, Los Angeles, Associate Professor of Anthropology; Linguistics

Lisa Pearl, Ph.D. University of Maryland, College Park, Associate Professor of Cognitive Sciences; Linguistics; Logic and Philosophy of Science (linguistics, computational linguistics, language development, language change, Bayesian models)

Armin Schwegler, Ph.D. University of California, Berkeley, Professor of Spanish and Portuguese; Linguistics

Julio R. Torres, Ph.D. Georgetown University, Assistant Professor of Spanish and Portuguese; Linguistics (heritage languages, second language acquisition)

Bernard H. Tranel, Ph.D. University of California, San Diego, Professor of Linguistics

Sean P. Walsh, Ph.D. University of Notre Dame, Associate Professor of Logic and Philosophy of Science; Linguistics (philosophy of mathematics, philosophy of logic and mathematical logic)

Kai Wehmeier, Ph.D. University of Münster, Director, Center for the Advancement of Logic, Its Philosophy, History, and Applications and Professor of Logic and Philosophy of Science; Linguistics; Philosophy
Courses

LINGUIS 1. Languages of the World. 4 Units.
The world has over 6,000 languages, with an exuberant variety of sounds, words, grammars. Introduction to a representative (about eight), drawn from every continent. Students not expected to learn these languages, but rather to explore and study their structure and complexity.

(VIII)

LINGUIS 2. Discovering Language. 4 Units.
Explores language's pervasiveness and diversity; demonstrates ways linguistics illuminates language's crucial—albeit hidden—societal role. Issues: self- and group-identification, language death, language in legal and educational settings. Illustrations: spoken and signed languages, varieties of English, Native American languages.

(VII)

LINGUIS 3. Introduction to Linguistics. 4 Units.
Emphasis on the notion that language is a remarkable achievement of the human mind. Current insights into the nature of language. Survey of various subfields of linguistics. Introduction to linguistic analysis.

(III, Vb)

LINGUIS 10. Introduction to Phonology. 4 Units.
Basic concepts in phonetic description and phonological analysis.
Prerequisite: LINGUIS 3

(III, Vb)

LINGUIS 20. Introduction to Syntax. 4 Units.
Basic concepts in syntactic description and grammatical analysis.
Prerequisite: LINGUIS 3

(III, Vb)

LINGUIS 43. Introduction to Symbolic Logic. 4 Units.
An introduction to the symbolism and methods of the logic of statements, including evaluation of arguments by truth tables, the techniques of natural deduction, and semantic tableaux.

Same as LPS 30, PHILOS 30.

(Vb)

LINGUIS 51. Acquisition of Language. 4 Units.
What children say, what they mean, and what they understand. Theories about the learning of language by one-, two-, and three-year olds. Comparison of kinds of data on which these theories are based.

Same as PSYCH 56L.

(III)

LINGUIS 51B. Foundations of Bilingual Education and Bilingualism. 4 Units.
Provides a comprehensive overview of current issues in bilingual education and bilingualism. Topics include dimensions of bilingualism, the effects of bilingualism on children's linguistic and cognitive development, bilingual education programs, literacy, special needs, and assessment.

Same as EDUC 52, HUMAN 52.

LINGUIS 68. Introduction to Language and Culture. 4 Units.
Explores what the study of language can reveal about ourselves as bearers of culture. After introducing some basic concepts, examines how cultural knowledge is linguistically organized and how language might shape our perception of the world.

Same as ANTHRO 2D.

(III)
LINGUIS 99. Special Topics in Linguistics. 4 Units.
Special Topics at lower-division level.
Repeatability: Unlimited as topics vary.

LINGUIS 102. Formal Languages and Automata. 4 Units.
Formal aspects of describing and recognizing languages by grammars and automata. Parsing regular and context-free languages. Ambiguity, nondeterminism. Elements of computability; Turning machines, random access machines, undecidable problems, NP-completeness.
Prerequisite: (I&C SCI 46 or CSE 46) and MATH 2A and MATH 2B and I&C SCI 6B and I&C SCI 6D. I&C SCI 46 with a grade of C or better. CSE 46 with a grade of C or better
Same as COMPSCI 162.
Restriction: School of Info & Computer Sci students have first consideration for enrollment. Cognitive Sciences Majors have first consideration for enrollment. Language Science Majors have first consideration for enrollment.

LINGUIS 107M. Computational Methods for Language Research. 4 Units.
Focuses on computational methods useful for language research. Students become familiar with software and programming languages used for extracting information from electronic datasets and for creating basic simulations of linguistic cognition. No prior programming experience assumed.
Prerequisite: PSYCH 150 or LINGUIS 155 or PSYCH 156A or LINGUIS 151
Same as PSYCH 157M.

LINGUIS 109. Special Topics in Computational Linguistics. 4 Units.
Topics in computational linguistics.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 111. Intermediate Phonology. 4 Units.
Prerequisite: Recommended: LINGUIS 10
Concurrent with LINGUIS 211.

LINGUIS 112. Advanced Phonology. 4 Units.
Overview of recent developments in phonological theory.
Prerequisite: LINGUIS 111
Concurrent with LINGUIS 212.

LINGUIS 115. Introduction to Phonetics. 4 Units.
Introduces students to fundamental concepts of phonetics. The sound systems of selected languages around the world, including that of English, will be described in detail. Students will be trained to work with speech sound recognition, phonetic transcription, language sound production.
Prerequisite: LINGUIS 3

LINGUIS 119. Special Topics in Phonetics/Phonology. 4 Units.
Topics in Phonetics/Phonology. May be repeated for credit as topic varies.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 121. Intermediate Syntax. 4 Units.
Examines various phenomena within a generative theory of syntax, focusing on the nature of syntactic rules, representations, and constraints.
Introduces methods of experimental syntax, providing students hands-on opportunity to recognize the connection(s) between theory and experiential results.
Prerequisite: LINGUIS 20
LINGUIS 124. Current Topics in Syntactic Theory. 4 Units.
Research seminar in syntax. Intensive study of a small number of well-defined topics which have had significant impact on the development of syntactic theory. May be repeated for credit as topic varies.

Repeatability: May be repeated for credit unlimited times.

Concurrent with LINGUIS 224.

LINGUIS 129. Special Topics in Syntax. 4 Units.
Topics in Syntax. May be repeated for credit as topic varies.

Prerequisite: Prerequisites vary.

Repeatability: Unlimited as topics vary.

LINGUIS 139. Special Topics in Morphology. 4 Units.
Topics in Morphology. May be repeated for credit as topic varies.

Prerequisite: Prerequisites vary.

Repeatability: Unlimited as topics vary.

LINGUIS 141. Topics in Philosophy of Language. 4 Units.
Selected topics in the philosophy of language, e.g., the nature of meaning, mechanisms of reference, speech acts.

Repeatability: Unlimited as topics vary.

Same as LPS 145, PHILOS 145.

LINGUIS 142. Introduction to Logic. 4 Units.
Introduction to sentence logic, including truth tables and natural deduction; and to predicate logic, including semantics and natural deduction.

Same as LPS 104, PHILOS 104.

LINGUIS 143. Introduction to Formal Semantics. 4 Units.
Introduces students to the analytical tools used in the investigation of natural language semantics. Topics include the truth-conditional approach to meaning, compositionality, scope and anaphora, generalized quantifier theory, and intensionality.

Prerequisite: LPS 30 or PHILOS 30 or LPS 104 or PHILOS 104. LPS 30 with a grade of A- or better. PHILOS 30 with a grade of A- or better. LPS 104 with a grade of A- or better. PHILOS 104 with a grade of A- or better.

LINGUIS 145A. Elementary Set Theory. 4 Units.
An introduction to the basic working vocabulary of mathematical reasoning. Topics include sets, Boolean operations, ordered n-tuples, relations, functions, ordinal and cardinal numbers.

Same as LPS 105A, PHILOS 105A.

LINGUIS 145B. Metalogic. 4 Units.
Introduction to formal syntax (proof theory) and semantics (model theory) for first-order logic, including the deduction, completeness, compactness, and Löwenheim-Skolem theorems.

Prerequisite: PHILOS 105A

Same as LPS 105B, PHILOS 105B.
Overlaps with MATH 150.

LINGUIS 145C. Undecidability and Incompleteness. 4 Units.
Introduction to the formal theory of effective processes, including recursive functions, Turing machines, Church's thesis, and proofs of Gödel's incompleteness theorem for arithmetic, and Church's undecidability theorem for first-order logic.

Prerequisite: PHILOS 105B

Same as PHILOS 105C, LPS 105C.
Overlaps with MATH 152.

Concurrent with LPS 205C.
LINGUIS 149. Special Topics in Semantics. 4 Units.
Topics in Semantics. May be repeated for credit as topic varies.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 150. Acquisition of Language II. 4 Units.
Focuses on native language learning, exploring the way in which infants and very young children unconsciously uncover the rich systematic knowledge of their native language. Examines both experimental and computational studies that quantitatively investigate the "how" of language acquisition.
Prerequisite: PSYCH 56L or LINGUIS 51
Same as PSYCH 156A.
Restriction: Cognitive Sciences Majors have first consideration for enrollment. Psychology Majors have first consideration for enrollment.

LINGUIS 151. Acquisition of Language II. 4 Units.
Focuses on native language learning, exploring the way in which infants and very young children unconsciously uncover the rich systematic knowledge of their native language. Examines both experimental and computational studies that quantitatively investigate the "how" of language acquisition.

LINGUIS 151B. Bilingual Acquisition. 4 Units.
Focuses on different forms of bilingualism, including bilingual first language acquisition, early second language acquisition, and late second language acquisition. Research techniques discussed include theoretical, experimental, and computational methods.
Prerequisite: LINGUIS 151 or PSYCH 156A. Placement via consent of the instructor is also accepted.

LINGUIS 151S. Second Language Acquisition . 4 Units.
Examines a number of theoretical perspectives that attempt to explain second language learning with a focus on adult learners. How universal constraints, individual differences, and social factors influence the task of learning a second language as an adult.
Prerequisite: LINGUIS 3 or SPANISH 113B

LINGUIS 155. Psychology of Language. 4 Units.
Examines language using the tools of experimental psychology. From sounds to words to spoken and written sentences, explores how language is used in real time, and how its use reveals how it is represented in the mind.
Prerequisite: (PSYCH 7A or PSY BEH 9) or (PSYCH 9B or PSY BEH 11B)
Same as PSYCH 150.
Restriction: Psychology Majors have first consideration for enrollment. Cognitive Sciences Majors have first consideration for enrollment.

LINGUIS 158. Language and the Brain . 4 Units.
Research analysis on biological bases of human linguistic capacity. Development, focusing on hemispheric specialization, plasticity; localization of specific linguistic functions in adults, with emphasis on study of aphasias; relation of linguistic capacity to general cognitive capacity, considering research on retardation.
Prerequisite: (PSYCH 7A or PSY BEH 9 or PSYCH 9A or PSY BEH 11A) and (PSYCH 9B or PSY BEH 11B or BIO SCI 35 or BIO SCI N110)
Same as BIO SCI N160, PSYCH 161.
Restriction: Cognitive Sciences Majors have first consideration for enrollment. Biological Sciences Majors have first consideration for enrollment. Psychology Majors have first consideration for enrollment.

LINGUIS 159. Special Topics in Psycholinguistics. 4 Units.
Topics in Psycholinguistics. May be repeated for credit as topic varies.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 164A. Topics in Romance Languages. 4 Units.
Topics in Romance Languages. May be repeated as topic varies.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.
LINGUIS 164B. French Phonetics. 4 Units.
Study of the sound structure of French. Introduction to elements of general phonetics, contrastive (French/English) phonetics, and French phonetics and phonology. Designed to help students improve their pronunciation. Also serves as a preparatory course for language teaching.
Prerequisite: FRENCH 1C

LINGUIS 165L. Language Change, Acquisition, and Complexity. 4 Units.
Focuses on models of language change, acquisition, and complexity, looking at the connections between them to explain empirical data relating to the form of existing languages and how languages change over time. Emphasis is placed on computational and mathematical models.
Prerequisite: PSYCH 156A. PSYCH 156A with a grade of A- or better. Consent of the instructor is also accepted.

LINGUIS 168J. Improvisation, Language, and Culture. 4 Units.
Addresses improvisation, both in performance and in everyday life. Examines improvisation as the “flexible regulation” of everyday behavior by exploring different scholarly treatments of language and interaction, and working on developing actual theatrical improvisation skills.
Same as ANTHRO 151A.
Restriction: Upper-division students only.

LINGUIS 168S. Language and Social Cognition. 4 Units.
Explores the relationship between language and cognition in social and cultural contexts. The overall goal is to think through how language structure and use impact how individuals perceive, think about, and understand the world around them.
Same as ANTHRO 150A.
Restriction: Anthropology Majors have first consideration for enrollment.

LINGUIS 169. Special Topics in Language Studies. 4 Units.
Topics in Language Studies. May be repeated for credit as topic varies.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 175. Language Origins: Evolution, Genetics, and the Brain. 4 Units.
Examines how human language(s) may have originated. Studies pertinent techniques (reconstruction) and addresses related questions, including is our language faculty inborn (i.e., genetically encoded)? Can brain imaging and population genetics research help to unlock this mystery of human evolution?
Same as HISTORY 135G, ANTHRO 152A, GLBLCLT 105.

LINGUIS 176. Introduction to Pidgins and Creoles. 4 Units.
Explores the linguistic structures of pidgin and creole languages and examines major theories for the surprisingly high degree of similarity found across pidgin and creole languages. Includes sociolinguistic and field methods.
Prerequisite: LINGUIS 3 or SPANISH 113A

LINGUIS 179. Special Topics in Historical Linguistics. 4 Units.
Topics in Historical Linguistics. May be repeated for credit as topic varies.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 181A. Jumpstart I: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.
Same as EDUC 141A, PSYCH 141J.
Restriction: Department of Education students have first consideration for enrollment. Psychology Majors have first consideration for enrollment.
LINGUIS 181B. Jumpstart I: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Same as EDUC 141B, PSYCH 141K.

Restriction: Department of Education students have first consideration for enrollment. Psychology Majors have first consideration for enrollment.

LINGUIS 181C. Jumpstart I: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Same as EDUC 141C, PSYCH 141L.

Restriction: Department of Education students have first consideration for enrollment. Psychology Majors have first consideration for enrollment.

LINGUIS 181D. Jumpstart II: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Prerequisite: (PSYCH 141J and PSYCH 141K and PSYCH 141L) or (EDUC 141A and EDUC 141B and EDUC 141C)

Same as EDUC 141D, PSYCH 141M.

LINGUIS 181E. Jumpstart II: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Prerequisite: (PSYCH 141J and PSYCH 141K and PSYCH 141L) or (EDUC 141A and EDUC 141B and EDUC 141C)

Same as EDUC 141E, PSYCH 141N.

LINGUIS 181F. Jumpstart II: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Prerequisite: (PSYCH 141J and PSYCH 141K and PSYCH 141L) or (EDUC 141A and EDUC 141B and EDUC 141C)

Same as EDUC 141F, PSYCH 141O.

LINGUIS 181G. Jumpstart III: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Prerequisite: (PSYCH 141M and PSYCH 141N and PSYCH 141O) or (EDUC 141D and EDUC 141E and EDUC 141F)

Same as EDUC 141G, PSYCH 141P.

LINGUIS 181H. Jumpstart III: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Prerequisite: (PSYCH 141M and PSYCH 141N and PSYCH 141O) or (EDUC 141D and EDUC 141E and EDUC 141F)

Same as EDUC 141H, PSYCH 141Q.

LINGUIS 181I. Jumpstart III: Early Language, Literacy, and Social Development. 4 Units.
An experiential course integrated with lecture material in the field of child development and education. Students are expected to attend lectures, complete assignments, and commit eight hours per week as mentors of disadvantaged preschool children.

Prerequisite: (PSYCH 141M and PSYCH 141N and PSYCH 141O) or (EDUC 141D and EDUC 141E and EDUC 141F)

Same as EDUC 141I, PSYCH 141R.
LINGUIS 189. Special Topics in Applied Language Science: Writing skills for Language Science. 4 Units.
Topics in Applied Language Science.
Prerequisite: Prerequisites vary.
Repeatability: Unlimited as topics vary.

LINGUIS 195A. Language Science Research I. 4 Units.
Provides students with in-depth experience in different facets of research in language science. It includes theoretical, behavioral, computational, and/or applied language science topics and methodologies.
Prerequisite: Permission of faculty advisor. If this is not the same faculty member as the course instructor, the faculty advisor will coordinate with the course instructor when it comes to assessing the student's research process at the end of each quarter.
Repeatability: May be repeated for credit unlimited times.

LINGUIS 195B. Language Science Research II. 4 Units.
Provides students with in-depth experience in different facets of research in language science. It includes theoretical, behavioral, computational, and/or applied language science topics and methodologies.
Prerequisite: Permission of faculty advisor. If this is not the same faculty member as the course instructor, the faculty advisor will coordinate with the course instructor when it comes to assessing the student's research process at the end of each quarter.
Repeatability: May be repeated for credit unlimited times.

LINGUIS 195C. Language Science Research III. 4 Units.
Provides students with in-depth experience in different facets of research in language science. It includes theoretical, behavioral, computational, and/or applied language science topics and methodologies.
Prerequisite: Permission of faculty advisor. If this is not the same faculty member as the course instructor, the faculty advisor will coordinate with the course instructor when it comes to assessing the student's research process at the end of each quarter.
Repeatability: May be repeated for credit unlimited times.

LINGUIS 198. Directed Group Study. 4 Units.
Directed study with Linguistics faculty. May be repeated for credit as topic varies.
Repeatability: Unlimited as topics vary.

LINGUIS 199. Independent Study. 4 Units.
Independent research with Linguistics faculty. May be repeated for credit as topic varies. Students may enroll for only one 199 each quarter.
Repeatability: May be repeated for credit unlimited times.