LINGUISTICS (LING)

Courses

LING 1000 (3) Language in U.S. Society
Nontechnical exploration of the ways that language is used in America. Emphasizes language as a social institution and how values and goals of both public institutions and private groups shape and are shaped by language and its use.

Additional Information: Arts Sci Core Curr: Contemporary Societies
Arts Sci Gen Ed: Distribution-Social Sciences
Arts Sci Gen Ed: Diversity-U.S. Perspective
MAPS Course: Social Science

LING 1010 (3) The Study of Words
Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically.

Equivalent - Duplicate Degree Credit Not Granted: CLAS 1010

Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences
Arts Sci Gen Ed: Distribution-Arts Humanities

LING 1020 (3) Languages of the World
Explores the issue of human diversity by examining how languages vary around the world. Outlines historical, geographic, and typological classifications of languages across human societies, and the criteria used by linguists for grouping them into language families. Theorizes the relationship between linguistic and cognitive diversity, and considers the impact of language death on humanity. No formal training in linguistics is required.

Additional Information: Arts Sci Core Curr: Human Diversity
Arts Sci Gen Ed: Distribution-Social Sciences
Arts Sci Gen Ed: Diversity-Global Perspective

LING 1200 (3) Programming for Linguistics
Presents techniques for computer programming in high level programming languages such as Python to address a range of problems with a specific focus on language processing and linguistics. The class is suitable for students with little to no prior experience in computing or programming.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 1200 or INFO 1201

Recommended: Prerequisite LING 2000.

Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 1500 (3) Understanding Grammar
Presents fundamentals of grammar in the Western tradition. Emphasizes making concepts and uses of grammar (as exemplified in English and closely related foreign languages) understandable to the nonspecialist.

Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 1900 (1) Community-Based Learning Practicum: Literacy and Language Learning
Practicum for students currently or previously enrolled in one of the departmental courses in sociocultural linguistics or TESOL. Student volunteers act as mentors to literacy and language learners in the Boulder community for 1-2 hours per week. Specific meeting times will be arranged at the beginning of the semester.

Repeatable: Repeatable for up to 3.00 total credit hours.

Requisites: Requires a corequisite course of LING 1000, LING 2400 or LING 3545 or a prerequisite of LING 1900 (minimum grade C-).

Grading Basis: Pass/Fail

LING 2000 (3) Introduction to Linguistics
Introduces the study of languages as structural systems. Principles of sound patterns, word formation, meaning, and sentence structure. Gives attention to language acquisition, psycholinguistics, language families, dialects, historical change in languages, and different language types.

Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences
MAPS Course: Social Science

LING 2400 (3) Language, Gender and Sexuality
Familiarizes students with the effects of gender and sexuality on language use; discusses popular beliefs and scholarly theories about language and communication. Provides students with tools for exploring the role of language and gender.

Arts Sci Core Curr: Human Diversity
Arts Sci Gen Ed: Distribution-Social Sciences
Arts Sci Gen Ed: Diversity-U.S. Perspective

LING 2500 (3) Race, Ethnicity, and Language
Explores the relationship between race, ethnicity, and language and how they are co-constructed. How do speakers of different racial and ethnic groups use language differently, and what are the social implications of these different language varieties? We discuss the implications of ethnolinguistic variation on racial stereotypes, education, and the law.

Equivalent - Duplicate Degree Credit Not Granted: ETHN 2500

Recommended: Prerequisite LING 1000.

Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences
Arts Sci Gen Ed: Diversity-U.S. Perspective

LING 3005 (3) Cognitive Science
Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications and limitations of the computational model of mind.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 3702 and PHIL 3310 and PSYC 3005 and SLHS 3003 and CSPB 3702

Recommended: Prerequisites of the following CSCI 1300 or LING 2000 or PHIL 2440 or PSYC 2145.

Additional Information: Arts Sci Gen Ed: Distribution-Arts Humanities
Arts Sci Gen Ed: Distribution-Natural Sciences
Arts Sci Gen Ed: Distribution-Social Sciences

LING 3100 (3) Language Sound Structures
Introduces the sounds of languages and their organization into phonological structures.

Requisites: Requires prerequisite of LING 2000 (minimum grade C-).

Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 3220 (3) American Indian Languages in their Social and Cultural Context
A sampling of the many indigenous languages and cultures found in America. Emphasizes the United States, but also gives attention to the languages of Canada and Latin America.

Recommended: students with 57-180 credits (Juniors or Seniors).

Additional Information: Arts Sci Core Curr: Human Diversity
Arts Sci Gen Ed: Diversity-U.S. Perspective
Arts Sci Gen Ed: Distribution-Social Sciences
LING 3430 (3) Semantics
Theoretical and practical study of meaning in natural language. Considers both semantic theories and semantic phenomena from diverse languages. Does not treat techniques for improving the use of language.
Requisites: Requires prerequisite LING 2000 (minimum grade C).
Restricted to students with 57-180 credits (Junior or Senior) Linguistic major or minors only.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 3545 (3) World Language Policies
Examines the economic and sociopolitical impact of choosing English vs. other languages in the U.S. Introduces the study of language policies, rights, and planning in other countries, including the worldwide use of English in social, business, and legal contexts.

LING 3630 (3) Principles and Practices in Teaching English to Speakers of Other Languages
Provides a practical overview of principles and practices in TESOL in its global context. Introduces methods and materials (texts, media, tools) and standards for teaching, learning and assessment. Includes lesson observation, planning and micro-teaching focused especially on listening, speaking and pronunciation. Assumes some background and/or interest in linguistics and language and applications to teaching English to adults/young adults.
Requisites: Requires a prerequisite or corequisite course of LING 2000 (minimum grade C).
Grading Basis: Letter Grade
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 3800 (1-4) Special Topics in Linguistics
Intensive study of a selected area or problem in linguistics.
Repeatable: Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4050 (3) Japanese Sociolinguistics: Japanese Language and Society
Issues of Japanese sociolinguistics in areas such as speech varieties, language behaviors and attitudes, linguistic contact and change and language policy. Incorporating critical perspectives of sociolinguistics into analyses of Japanese literature and Japanese language education.
Equivalent - Duplicate Degree Credit Not Granted: JPNS 4050 and JPNS 5050
Requisites: Requires prerequisite course of JPNS 3110 (minimum grade C).
Grading Basis: Letter Grade
Additional Information: Arts Sci Gen Ed: Distribution-Arts Humanities

LING 4100 (3) Perspectives on Language
Provides extended critical examination of a few selected issues, chosen each term for their general interest and relevance, e.g., the relation between language and thought, or human language vs. animal languages, and computer languages.
Repeatable: Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.
Requisites: Restricted to students with 57-180 credits (Juniors or Seniors).
Recommended: Prerequisite LING 2000.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4220 (3) Language and Mind
Studies topics such a speech perception, word recognition, sentence comprehension, language acquisition, bilingualism, reading and writing. Examines the role of language as a product and producer of the mind, studying interactions between language and cognition from an interdisciplinary perspective. Students will become familiar with the methods of psycholinguistics and design and conduct a psycholinguistic experiment on their own.
Equivalent - Duplicate Degree Credit Not Granted: PSYC 4220
Recommended: Prerequisites PSYC 1001 and LING 2000.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4225 (4) Interdisciplinary Research Methods in Child Language Acquisition
Explores fundamental issues in language acquisition cross-culturally, combining methods from Linguistics, Anthropology, Psychology and Computer Science. Students will explore theoretical issue using a hands-on approach that involves acquiring skills such as designing and conducting experiments, investigating corpus data, and computational modeling.
Equivalent - Duplicate Degree Credit Not Granted: PSYC 4225
Recommended: Prerequisites PSYC 1001 and LING 2000.
Grading Basis: Letter Grade
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4420 (3) Morphology and Syntax
Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world’s languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages.
Equivalent - Duplicate Degree Credit Not Granted: LING 5420
Requisites: Requires prerequisite of LING 2000 (minimum grade C-).
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4450 (3) Introduction to Formal Syntax
Introduces formal generative grammar, including determining constituent structure, drawing trees, writing rules, understanding the properties of the lexicon and their interaction with syntax, X-bar theory and its modifications and movement analysis. Recommend pre-req: LING 4420
Requisites: Requires prerequisite of LING 2000 (minimum grade C-).
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4460 (3) Language Development
Emphasizes acquisition of language by young children; development in later years and into adulthood is also treated. Particular attention given to roles of environment and of neurophysiological endowment in learning to communicate with words, sentences, and narratives.
Equivalent - Duplicate Degree Credit Not Granted: SLHS 4560 and PSYC 4560
Requisites: Restricted to Linguistics (LING) majors only.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4610 (3) English Structure for Teachers of English to Speakers of Other Languages
Description of morphological and syntactic categories and structures of English.
Equivalent - Duplicate Degree Credit Not Granted: LING 5610
Recommended: Prerequisite LING 2000.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences
LING 4632 (3) Machine Learning and Linguistics
Is an introduction to machine learning, with a focus on linguistic applications. It is oriented toward students who want to understand the basics of machine learning and apply well-known techniques to address problems related to language and linguistics. The main goal is to achieve a practical grasp of the fundamental and most successful concepts in machine learning and to be equipped with techniques to apply this knowledge in linguistic domains. The course is also intended to provide a perspective on natural language acquisition and learning, namely, insight into what types of language acquisition problems are truly difficult, and what types of learning problems can be solved by fairly straightforward pattern recognition techniques.
Requisites: Requires prerequisite course of LING 1200 (minimum grade C).

LING 4700 (3) Conversation Analysis and Interactional Linguistics
Provides an introduction to the theories and methods of Conversation Analysis (CA) and Interactional Linguistics (IL), which aim to uncover the procedural infrastructure of language use in social interaction. The course emphasizes hands-on experience in analyzing naturally-occurring interactional data. Topics may include: turn-taking, sequence and preference organization, repair, reference, epistemics, and identity.
Requisites: Requires prerequisite of LING 2000 (minimum grade C).
Grading Basis: Letter Grade
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4800 (3) Language and Culture
Principles of language structure and how language and culture interrelate, how language and language use are affected by culture and how culture may be affected by use of, or contact with, particular languages.
Equivalent - Duplicate Degree Credit Not Granted: ANTH 4800
Recommended: Prerequisite LING 1000 or LING 2400 or ANTH 2100.
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 4830 (3) Honors Thesis
Required for students who elect departmental honors. Students write an honors thesis based on independent research under the direction of a faculty member.
Repeatable: Repeatable for up to 7.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Arts Sciences Honors Course

LING 4900 (1-3) Independent Study
Repeatable: Repeatable for up to 8.00 total credit hours. Allows multiple enrollment in term.

LING 4910 (3) TESOL Practicum
Provides the field-based component and practical experience in English language teaching for the TESOL Certificate. Work on site includes class observations and supervised teaching in community-based programs/ESL providers. Weekly meetings provide opportunities to debrief/discuss teaching practice and connect theory, methods and practice. Supports professional development, completion of a teaching resume and portfolio and the job search process.
Equivalent - Duplicate Degree Credit Not Granted: LING 5910
Requisites: Requires prerequisite courses of LING 2000 and LING 3630 (minimum grade C).
Grading Basis: Letter Grade
Additional Information: Arts Sci Gen Ed: Distribution-Social Sciences

LING 5030 (3) Linguistic Phonetics
Introduces practical and theoretical aspects of phonetics. Provides training in recognition and production of speech sounds, and instruction on fundamentals of articulatory, acoustic, and auditory phonetics.
Requisites: Restricted to graduate students only.

LING 5140 (2) CLASIC Capstone
In this capstone to the Computational Linguistics, Analytics, Search and Informatics (CLASIC) professional master's program, we will review each student's internship project and prepare presentations and technical reports based on those internships. Students will present their work on the annual Industry Day or at an Advisory Board meeting to industry representatives. They will also submit a paper to a relevant conference or workshop. Previously offered as a special topics course.
Requisites: Restricted to students in the Computational Linguistics, Analytics, Search and Informatics (CLASI) program only.
Recommended: It is recommended that this course be taken after the CLASIC internship has been completed.

LING 5200 (3) Introduction to Computational Corpus Linguistics
Covers computer methods for doing linguistics with on-line corpora. Includes extensive introduction (with lab) to the Python programming language, UNIX corpus tools, concordance programs, syntactic treebanks, propbanks, and corpora for discourse and phonology research.
Requisites: Restricted to graduate students only.

LING 5300 (3) Research in Psycholinguistics
After a general introduction to issues and research methods in psycholinguistics (language production and comprehension, language and cognition, language acquisition), several major current research topics, such as models of speech production and theories of brain specialization for language, are explored.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite at least one graduate-level course in LING, PSYC or CSCI.

LING 5410 (3) Phonology
Studies sound systems of language. Introduces both principles of organization of sound systems and major kinds of phonological structures found worldwide. Provides extensive practice in applying phonological principles to data analysis.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite LING 5030.

LING 5420 (3) Morphology and Syntax
Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world’s languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages.
Equivalent - Duplicate Degree Credit Not Granted: LING 4420
Requisites: Restricted to graduate students only.

LING 5430 (3) Semantics and Pragmatics
Explores fundamental concepts of semantics and pragmatics, including theories of communication and meaning, representation, conversational implications, speech acts, and discourse structure.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite LING 5420.

LING 5570 (3) Introduction to Diachronic Linguistics
Familiarizes students with terminology, methods, and theories dealing with phenomena of language change through time.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite LING 5410.
LING 5610 (3) English Structure for Teachers of English to Speakers of Other Languages
Description of morphological and syntactic categories and structures of English.
Equivalent - Duplicate Degree Credit Not Granted: LING 4610
Requisites: Restricted to graduate students only.

LING 5620 (3) Oral Language and Communication for TESOL
Provides teaching and learning principles and practices for developing nonnative speakers' oral English proficiency and intercultural communication skills. Examines the sound system of American English (including prosody), listening and pronunciation, lexical considerations, and discourse functions and grammar, and how these contribute to speaking fluency, accuracy and communicative effectiveness. Focuses on teaching applications and includes one-on-one sessions with English learners.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite LING 3100 or LING 5030 and LING 5410.
Grading Basis: Letter Grade

LING 5630 (3) TESOL and Second Language Acquisition: Principles and Practices
Provides an overview of methods and materials for teaching English as an additional language, along with opportunities for students to observe, discuss and analyze these in relation to language teaching principles, linguistic considerations, and global and local contexts. Aimed primarily at the teaching of English to nonnative speaking adults, the course also addresses second and foreign language teaching generally.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite LING 5610 or LING 5620.
Grading Basis: Letter Grade

LING 5700 (3) Conversation Analysis and Interactional Linguistics
Provides an introduction to the theories and methods of Conversation Analysis (CA) and Interactional Linguistics (IL), which aim to uncover the procedural infrastructure of language use in social interaction. The course emphasizes hands-on experience in analyzing naturally-occurring interactional data. Topics may include: turn-taking, sequence and preference organization, repair, reference, epistemics, and identity.
Grading Basis: Letter Grade

LING 5800 (3) Open Topics in Linguistics
Various topics not normally covered in the curriculum. Offered intermittently depending on student demand and availability of instructors. Contact the department office for information.
Repeatable: Repeatable for up to 3.00 total credit hours. Allows multiple enrollment in term.
Requisites: Restricted to graduate students only.
Grading Basis: Letter Grade

LING 5832 (3) Natural Language Processing
Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs.
Equivalent - Duplicate Degree Credit Not Granted: CSCI 5832
Requisites: Restricted to graduate students only.

LING 5900 (1-3) Independent Study
Repeatable: Repeatable for up to 7.00 total credit hours. Allows multiple enrollment in term.
Requisites: Restricted to graduate students only.

LING 5910 (1-3) TESOL Practicum
Provides observation and supervised teaching experiences in classroom and other contexts involving the teaching of English to speakers of other languages, especially adults and young adult learners in settings outside K-12. Meetings provide opportunities to debrief and to consult on teaching practice; help students connect theory, methods and practice; and support a professional teaching portfolio process.
Equivalent - Duplicate Degree Credit Not Granted: LING 4910
Repeatable: Repeatable for up to 6.00 total credit hours. Allows multiple enrollment in term.
Requisites: Restricted to graduate students only.
Recommended: Prerequisite LING 4610 or LING 5610.

LING 6200 (3) Issues and Methods in Cognitive Science
Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. No background in computer science will be presumed.
Equivalent - Duplicate Degree Credit Not Granted: CSCI 6402 and EDUC 6504 and PHIL 6310 and PSYC 6200 and SLHS 6402
Requisites: Restricted to graduate students only.
Recommended: Prerequisite at least one course at the 3000-level or higher in CSCI, LING, PHIL, or PSYC.

LING 6300 (3) Topics in Language Use
Discusses current issues and research in a selected area related to language use and function. Sample topics include conversational interaction, language policy, language content, and sociolinguistic variation.
Requisites: Restricted to graduate students only.

LING 6310 (3) Sociolinguistic Analysis
Serves as an advanced introduction to the empirical and theoretical foundations of contemporary sociolinguistic analysis, with special emphasis on linguistic variation, diversity and change.
Requisites: Restricted to graduate students only.

LING 6320 (3) Linguistic Anthropology
Serves as an advanced introduction to the empirical and theoretical foundations of contemporary linguistic anthropology, with special emphasis on the ways in which culture and society emerge semiotically through language and discourse.
Equivalent - Duplicate Degree Credit Not Granted: ANTH 6320
Requisites: Restricted to graduate students only.

LING 6450 (3) Syntactic Analysis
Introduces the major constructs used by formal theories of syntax to capture the relationship between meaning and syntactic form and uses data from diverse languages to explore the universality of these constructs.
Requisites: Restricted to graduate students only.

LING 6500 (3) Issues in Indigenous Languages
Addresses socio-cultural issues concerning indigenous languages, including human rights, intellectual property, language endangerment and maintenance, identity, linguistic relativity, sense of place.
Equivalent - Duplicate Degree Credit Not Granted: ANTH 6500
Requisites: Restricted to graduate students only.
Grading Basis: Letter Grade
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Requisites</th>
<th>Recommended</th>
<th>Equivalent - Duplicate Degree Credit Not Granted</th>
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<tbody>
<tr>
<td>LING 6510</td>
<td>(3) Language Structures</td>
<td>Surveys the structure of one or more languages, emphasizing understanding how parts of the language interact. Designed to supplement courses in which parts of languages are used to illustrate theoretical claims.</td>
<td>Repeatable: Repeatable for up to 6.00 total credit hours. Allows multiple enrollment in term.</td>
<td>Requisites: Restricted to graduate students only.</td>
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<td>Recommended: Prerequisites LING 5410 and LING 5420.</td>
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<tr>
<td>LING 6520</td>
<td>(3) Topics in Comparative Linguistics</td>
<td>Students compare and contrast selected structures of languages treated from a typological, genetic, or a real perspective. No special prior knowledge of the subject language is required.</td>
<td>Requisites: Restricted to graduate students only.</td>
<td>Recommended: Prerequisites LING 5410 and LING 5420 and LING 5570.</td>
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<tr>
<td>LING 6560</td>
<td>(3) Language Acquisition</td>
<td>Theories and research methods in first-language acquisition of phonology, morphology, syntax, semantics, and pragmatics.</td>
<td>Requisites: Restricted to graduate students only.</td>
<td>Recommended: Prerequisites LING 5410 and LING 5420 and LING 5430.</td>
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<tr>
<td>LING 6632</td>
<td>(3) Machine Learning and Linguistics</td>
<td>Is an introduction to machine learning, with a focus on linguistic applications. It is oriented toward students who want to understand the basics of machine learning and apply well-known techniques to address problems related to language and linguistics. The main goal is to achieve a practical grasp of the fundamental and most successful concepts in machine learning and to be equipped with techniques to apply this knowledge in linguistic domains. The course is also intended to provide a perspective on natural language acquisition and learning, namely, insight into what types of language acquisition problems are truly difficult, and what types of learning problems can be solved by fairly straightforward pattern recognition techniques.</td>
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<td>LING 6861</td>
<td>(1-2) Interdisciplinary Training in the Social Sciences Methods</td>
<td>Course This is a new course number for a series of interdisciplinary graduate methods seminars created as part of the new Interdisciplinary Training in the Social Sciences program, which is co-funded by the Graduate School and the College of Arts and Sciences. These courses, which have rotating topics, train graduate students in qualitative and quantitative methods. CARTSS/IBS will arrange three one-credit advanced methods mini-courses each Spring semester. The mini-courses will be taught weekly (two hours per week) for five weeks. The courses will change each spring; topics include a wide variety of advanced statistical analysis methods, machine learning for social sciences, text analysis, experimental techniques, network analysis, survey design, interview protocols, etc. Open to all interested graduate students, with programming provided jointly by the Institute of Behavioral Science (IBS) and the Center to Advance Research and Teaching in the Social Sciences (CARTSS).</td>
<td>Repeatable: Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.</td>
<td>Requisites: Restricted to graduate students only.</td>
<td>Requisite LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6505 or LING 6200 or PHIL 6310 or PSYC 6200.</td>
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<td>Requisites: Restricted to graduate students only.</td>
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<td>LING 6940</td>
<td>(1) Master's Candidate for Degree</td>
<td>Provides students with the practical skills and the conceptual framework to do independent research in phonetics (or in other areas relying on phonetic data). Introduces current and traditional issues in phonetic research (both experimental and theoretical) and gives training in analytical methods.</td>
<td>Prerequisite LING 5410 or LING 5420.</td>
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<td>Recommended: Prerequisites LING 5030 and LING 5410.</td>
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<td>LING 7100</td>
<td>(3) Field Methods 1</td>
<td>Introduces the process of discovering structure of a language from data obtained directly from its speakers. Emphasizes effectiveness in the field context, rapid recognition of structural features, and preliminary formulation using computational tools.</td>
<td>Requisites: Restricted to graduate students only.</td>
<td>Recommended: Prerequisites LING 5410 and LING 5420.</td>
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<td>LING 7350</td>
<td>(3) Language and Gender in Cultural Perspective</td>
<td>Examines organizations of language and gender in a variety of societies and cultures from the perspectives of sociolinguistics, linguistic anthropology, and socially-oriented discourse analysis.</td>
<td>Requisites: Restricted to graduate students only.</td>
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<td>LING 7410</td>
<td>(3) Phonological Theory</td>
<td>Phonetic and morphophonological representations: distinctive features, segments, prosodic structures, morphological structures. Phonological processes and their interaction. Naturalness conditions.</td>
<td>Requisites: Restricted to graduate students only.</td>
<td>Recommended: Prerequisite LING 5410.</td>
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<td>LING 7415</td>
<td>(2) Cognitive Science Research Practicum</td>
<td>Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Department enforced prerequisites: CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200.</td>
<td>Equivalent - Duplicate Degree Credit Not Granted: CSCI 7412 and EDUC 6506 and PHIL 7415 and PSYC 7415 and SLHS 7418</td>
<td>Requisites: Restricted to graduate students only.</td>
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<td>Recommended: Prerequisite EDUC 6505.</td>
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<td>Requisites: Restricted to graduate students only.</td>
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<td>LING 7420</td>
<td>(3) Syntactic Theory</td>
<td>Covers various topics in syntactic theory.</td>
<td>Repeatable: Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.</td>
<td>Requisites: Restricted to graduate students only.</td>
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<td>Recommended: Prerequisite LING 5420.</td>
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<td>Requisites: Restricted to graduate students only.</td>
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<tr>
<td>LING 7425</td>
<td>(2) Cognitive Science Research Practicum 2</td>
<td>Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project.</td>
<td>Equivalent - Duplicate Degree Credit Not Granted: CSCI 7422 and EDUC 6516 and PHIL 7425 and PSYC 7425 and SLHS 7428</td>
<td>Requisites: Restricted to graduate students only.</td>
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<td>Recommended: Prerequisite LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506.</td>
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<td>Requisites: Restricted to graduate students only.</td>
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LING 7430 (3) Semantic Theory
Current developments in the theory of linguistic semantics. Topics include truth-conditional theories, generative linguistic theories, semantic theories of communicative competence and integration of these theories in development of a combined theory of semantics and pragmatics.
**Requisites:** Restricted to graduate students only.
**Recommended:** Prerequisite LING 5430.

LING 7565 (3) Computational Phonology and Morphology
Surveys of the main approaches and central questions related to computational modeling and learning of morphology and phonology. We consider questions related to learnability of phonology/morphology, machine learning implementations, and linguist-driven grammar modeling.
**Recommended:** Prerequisites LING 5410 and LING 5420.

LING 7570 (3) Advanced Diachronic Linguistics
Presents theories of language change. Discusses mechanisms of language change, its trajectories over linguistic categories and items and its relation to theories of grammar and of language variation.
**Requisites:** Restricted to graduate students only.
**Recommended:** Prerequisites LING 5410 and LING 5420 and LING 5570.

LING 7775 (1) Topics in Cognitive Science
Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science.
**Equivalent - Duplicate Degree Credit Not Granted:** CSCI 7772 and EDUC 7775 and PHIL 7810 and PSYC 7775 and SLHS 7775
**Repeatability:** Repeatable for up to 4.00 total credit hours.
**Requisites:** Restricted to graduate students only.

LING 7800 (3) Open Topics in Linguistics
Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. Contact the department office for information.
**Repeatability:** Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.
**Requisites:** Restricted to graduate students only.

LING 7900 (1-3) Independent Study
**Repeatability:** Repeatable for up to 7.00 total credit hours. Allows multiple enrollment in term.
**Requisites:** Restricted to graduate students only.

LING 8990 (1-10) Doctoral Dissertation
All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.
**Repeatability:** Repeatable for up to 30.00 total credit hours.
**Requisites:** Restricted to graduate students only.