

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 Core Curr: United States Context

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-Arts Humanities

Arts Sci Gen Ed: Distribution-Social Sciences

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: Diversity-Global Perspective

Arts Sci Gen Ed: Distribution-Social Sciences

LING 1200 (3) Introduction to Python Programming

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 1701

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

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.

LING 2000 (3) Introduction to Linguistics

Introduces the study of languages as structural systems. Describes 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 2030 (3) The Ancient Roots of Modern Medicine

Students learn the meaning and use of the Greek and Latin roots in modern medical terminology; they gain an appreciation of ancient Roman and Greek medicine history and culture in their relation to the modern practice of Western medicine and the sciences; they become familiar with common ancient bioethical principles that govern the ancient practice of medicine and the sciences and learn to appreciate how these principles inform and influence modern medicine and the sciences.

Equivalent - Duplicate Degree Credit Not Granted: AHUM 2030 and CLAS 2030

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

Arts Sci Gen Ed: Distribution-Social Sciences

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.

Additional Information: GT Pathways: GT-SS3 -Soc Behav Sci:Hmn Behav, Cult, Soc Frame

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? Discusses 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: INFO 3702 and CSCI 3702 and PHIL 3310 and PSYC 3005 and SLHS 3003 and CSPB 3702

Recommended: Prerequisites two 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 3185 (3) Figurative Language

Introduces a framework for analyzing the metaphorical systems used to reason about abstract phenomena like emotion, conflict, purpose, relationships, power, causation, time, life and ideation. Explores how new word meanings develop and how meaning is grounded in embodied experience. Investigates how metaphor is distinguished from other common types of figurative language, including irony.

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

Recommended: Prerequisite or corequisite LING 3430 and junior or senior class standing.

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

LING 3200 (3) Academic Oral Communication in English

Designed for undergraduate students who speak English as an additional language, this course improves students' oral communication skills for effective academic interactions in the classroom and within their academic discipline. Specific attention is given to presentation skills; developing, explaining and clarifying ideas; and discussion skills such as interrupting, hedging, and responding to questions. Students deliver formal presentations and impromptu speeches, and lead and participate in group discussions. Students improve active listening skills, non-verbal communication and English pronunciation. This course does not count toward the Linguistics major or minor.

Recommended: this course is restricted to course is restricted to speakers of English as an additional language.

Grading Basis: Letter Grade

LING 3210 (3) English for Academic Purposes

Designed for undergraduate students for whom English is an additional language, this course develops academic English skills for university-level work. Students sharpen English accuracy through academic reading, writing, speaking, and listening practice. They learn to express ideas more clearly, both orally and in writing, while engaging critically in class discussions, and giving presentations, including on a researched topic related to their major. Students improve grammatical accuracy, develop academic vocabulary, and expand critical thinking skills and metacognitive strategies. This course does not count toward the Linguistics major or minor.

Recommended: this course is restricted to students who use English as their additional language.

Grading Basis: Letter Grade

LING 3220 (3) American Indigenous 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: Distribution-Social Sciences

Arts Sci Gen Ed: Diversity-U.S. Perspective

LING 3251 (3) Language in Arab Society

This course introduces the multilingual situation of Arab societies and presents fundamental concepts in sociolinguistics. Students study the major theories and frameworks of language variation and change and the influence of variables such as gender, social class, religion, and colonization on language choice. Students will understand the relationship between language, identity and ideology revealing power dynamics in Arab communities. The course is taught in English and no prior knowledge of Arabic language is required.

Equivalent - Duplicate Degree Credit Not Granted: ARAB 3251

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

LING 3430 (3) Semantics

Theoretical and practical study of meaning in natural language.

Considers both semantic theories and semantic phenomena from diverse languages.

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.

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

Arts Sci Gen Ed: Diversity-Global Perspective

LING 3550 (3) Talk at Work: Language Use in Institutional Contexts

Provides an overview of language use in various workplace settings, with an emphasis on hands-on data analysis. Possible contexts include 911 emergency calls, doctor-patient consultations, news interviews, customer-service encounters, classroom discourse, and courtroom interaction. The course also discusses language-based inequalities in such contexts, as well as some of the laws and policies that govern language in the workplace.

Recommended: Prerequisite LING 1000.

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

LING 3800 (3) Special Topics in Linguistics

Intensive study of a selected area or problem in linguistics.

Repeatable: Repeatable for up to 12.00 total credit hours. Allows multiple enrollment in term.

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

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

LING 3832 (3) Computational Linguistics

Surveys the fundamental problems, models, and algorithms found and used in the processing of natural language. Computational linguistics is a large field and we will only be able to cover a selection of the vast range of methods employed to solve tasks involving natural language. However, arguably there exists a "core vocabulary" of techniques shared by most practitioners and researchers in the field, which we will focus on.

Requisites: Requires Prerequisite of LING 1200 or CSCI 1200 or CSCI 1300 or INFO 2201 (all minimum grade C-).

Recommended: Prerequisite or corequisite LING 2000.

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

LING 4050 (3) Japanese Sociolinguistics

Explores issues related to contemporary Japanese language and society, such as language and identity, language and ideology, and language variation and change in Japan. More specifically, we will reconsider topics such as diversity in gender language, honorifics, dialects, and use of English in Japanese society that have been unidirectionally taught in Japanese language classrooms. The course aims to provide students opportunities to incorporate critical perspectives of sociolinguistics into analyses of Japanese literature and Japanese language education.

Equivalent - Duplicate Degree Credit Not Granted: JPNS 4050

Requisites: Requires prerequisite course of JPNS 3110 (minimum grade C).

Grading Basis: Letter Grade

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

Arts Sci Gen Ed: Diversity-Global Perspective

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 12.00 total credit hours. Allows multiple enrollment in term.

Recommended: Prerequisite LING 2000.

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

LING 4200 (3) Introduction to Computational Corpus Linguistics

This course includes extensive introduction (with lab) to the use of Python programming language, UNIX corpus tools, concordance programs, syntactic treebanks, probanks, and corpora for linguistic analysis and natural language processing. discourse and phonology research. A major focus is the development of computational skills, preparing the student for CSCI 5832 (Natural Language Processing). Previous completion of LING 1200 or CSCI 1300 highly recommended.

Equivalent - Duplicate Degree Credit Not Granted: LING 5200

Recommended: Prerequisite LING 1200.

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

LING 4220 (3) Language and Mind

Studies topics such as 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 course of LING 2000 (minimum grade C-). Restricted to Linguistic (LING) majors or minors with 57-180 credits (Junior or Senior) only.

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 4560 (3) Language Development

Covers the development of language in childhood and into adult life, emphasizing the role of environment and biological 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) Pedagogical Grammar for Teachers of English to Speakers of Other Languages

Provides an introduction to the study of English grammar from the perspective of the nonnative learner and user of English. The focus is on understanding the form, meaning, and use of grammatical constructions and on how to teach these constructions in an ESL/EFL context.

Equivalent - Duplicate Degree Credit Not Granted: LING 5610

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

LING 4620 (3) Teaching Second Language (L2) Oral Skills and Communication

This course explores pedagogical approaches for developing nonnative speakers' oral English proficiency and communication skills. We explore the practical and theoretical aspects of teaching the macroskills - listening and speaking - as well as related microskills, including pronunciation, fluency, vocabulary, and comprehension. Pedagogical concepts are considered through the lens of various teaching contexts for learners of all ages and backgrounds. Praxis occurs through lesson development and analysis and interactions with language learners in the community. Recommended prerequisite: LING 3100.

Equivalent - Duplicate Degree Credit Not Granted: LING 5620

Recommended: Prerequisite or corequisite LING 4630.

LING 4622 (3) Statistical Analysis for Linguistics

Aims to acquaint students with the fundamentals of quantitative analysis in linguistics and provide a practical introduction to the R statistical computing environment. Topics that will be covered include examining and manipulating data, tests for independence, regression modeling, mixed models, measures of association, and data visualization. It is suitable for students with no prior experience with statistics or statistical software packages.

Equivalent - Duplicate Degree Credit Not Granted: LING 5622

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

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

Additional Information: Arts Sci Gen Ed: Quantitative Reasoning Math
Arts Sci Gen Ed: Distribution-Social Sciences

LING 4630 (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, second language acquisition, linguistic considerations, and global and local contexts. Aimed primarily at the teaching of English to non-native speaking adults, the course also addresses second and foreign language teaching.

Grading Basis: Letter Grade

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. Formerly offered as a special topics course.

Requisites: Requires prerequisite course of LING 1200 (minimum grade C-) or CSCI 1200 (minimum grade C-).

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

LING 4640 (3) Teaching Language Skills: Focus on Social Justice

Introduces the underlying theories and classroom practices for teaching second language reading, writing, listening and speaking. The course highlights the nature of literacy and oral language development, beginning language skills (phonemic awareness, phonics, pronunciation), and meaning-focused language instruction. This unique iteration of the course, designed for CU Boulder's Global Seminar program takes a theme-based and project-based approach, contextualizing the study of language teaching around an exploration of social justice issues that are pressing both in Armenia and globally.

Equivalent - Duplicate Degree Credit Not Granted: LING 5640

Grading Basis: Letter Grade

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

LING 4650 (3) Language Teaching Materials Design

This course introduces the role of English as an international language and its impact on languages, cultures, and communities around the world. Students evaluate approaches to teaching English against the backdrop of sociopolitical and historical factors. This course utilizes a project-based approach to study language teaching in a Zapotec speech community. The project involves co-creating language teaching materials for use by Zapotec speakers in efforts to maintain and revitalize the Zapotec language among young learners.

Equivalent - Duplicate Degree Credit Not Granted: LING 5650

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.

Equivalent - Duplicate Degree Credit Not Granted: LING 5700

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 (1-3) 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 6.00 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 course of LING 3630 or LING 4630 (minimum grade C).

Grading Basis: Letter Grade

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

LING 4920 (3) Speakers and the Structure of their Languages

This is a summer intensive course that introduces various areas of Linguistics (specifically phonology, morphology, and syntax) at the same time that highlights the importance of language documentation, description and revitalization. The target language for Summer 2024 is Zapotec. 50% of this course is designed so that students can get a basic knowledge of this language as a second language and be able to interact with the community of speakers.

Equivalent - Duplicate Degree Credit Not Granted: LING 5920

Repeatable: Repeatable for up to 6.00 total credit hours.

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.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 5140

Requisites: Restricted to students in the Computational Linguistics, Analytics, Search and Informatics (CLSI) 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

This course is an introduction to the use of corpora for linguistic analysis and natural language processing. A major focus is the development of computational skills, preparing the student for CSCI 5832 (Natural Language Processing). Previous completion of LING 1200 or CSCI 1300 highly recommended.

Equivalent - Duplicate Degree Credit Not Granted: LING 4200

Requisites: Restricted to graduate students only.

LING 5300 (3) Research in Psycholinguistics

Explores research topics and methods in psycholinguistics selected from areas such as language production and comprehension, language and cognition, and language acquisition.

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) Pedagogical Grammar for Teachers of English to Speakers of Other Languages

Provides an introduction to the study of English grammar from the perspective of the nonnative learner and user of English. The focus is on understanding the form, meaning, and use of grammatical constructions and on how to teach these constructions in an ESL/EFL context.

Equivalent - Duplicate Degree Credit Not Granted: LING 4610

Requisites: Restricted to graduate students only.

LING 5620 (3) Teaching Second Language (L2) Oral Skills and Communication

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.

Equivalent - Duplicate Degree Credit Not Granted: LING 4620

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 3100 or LING 5030 and LING 5410.

Grading Basis: Letter Grade

LING 5622 (3) Statistical Analysis for Linguistics

Aims to acquaint students with the fundamentals of quantitative analysis in linguistics and provide a practical introduction to the R statistical computing environment. Topics that will be covered include examining and manipulating data, tests for independence, regression modeling, mixed models, measures of association, and data visualization. It is suitable for students with no prior experience with statistics or statistical software packages.

Equivalent - Duplicate Degree Credit Not Granted: LING 4622

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.

Equivalent - Duplicate Degree Credit Not Granted: LING 4630

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 5610 or LING 5620.

Grading Basis: Letter Grade

LING 5640 (3) Teaching Language Skills: Focus on Social Justice

Introduces the underlying theories and classroom practices for teaching second language reading, writing, listening and speaking. The course highlights the nature of literacy and oral language development, beginning language skills (phonemic awareness, phonics, pronunciation), and meaning-focused language instruction. This unique iteration of the course, designed for CU Boulder's Global Seminar program takes a theme-based and project-based approach, contextualizing the study of language teaching around an exploration of social justice issues that are pressing both in Armenia and globally.

Equivalent - Duplicate Degree Credit Not Granted: 4640

Grading Basis: Letter Grade

LING 5650 (3) Language Teaching Materials Design

This course introduces the role of English as an international language and its impact on languages, cultures, and communities around the world. Students evaluate approaches to teaching English against the backdrop of sociopolitical and historical factors. This course utilizes a project-based approach to study language teaching in a Zapotec speech community. The project involves co-creating language teaching materials for use by Zapotec speakers in efforts to maintain and revitalize the Zapotec language among young learners.

Equivalent - Duplicate Degree Credit Not Granted: LING 4650

Requisites: Restricted to graduate students only.

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.

Equivalent - Duplicate Degree Credit Not Granted: LING 4700

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 (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: Requires prerequisite course of LING 4630 or LING 5630 (minimum grade C). Restricted to graduate students only.

Recommended: Prerequisite LING 4610 or LING 5610.

LING 5920 (3) Speakers and the Structure of their Languages

This is a summer intensive course that introduces various areas of Linguistics (specifically phonology, morphology, and syntax) at the same time that highlights the importance of language documentation, description and revitalization. The target language for Summer 2024 is Zapotec. 50% of this course is designed so that students can get a basic knowledge of an indigenous language as a second language and be able to interact with the community of speakers.

Equivalent - Duplicate Degree Credit Not Granted: LING 4920

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.

Repeatable: Repeatable for up to 6.00 total credit hours.

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

LING 6510 (3) Language Structures

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.

Repeatable: Repeatable for up to 6.00 total credit hours. Allows multiple enrollment in term.

Requisites: Restricted to graduate students only.

Recommended: Prerequisites LING 5410 and LING 5420.

LING 6520 (3) Topics in Comparative Linguistics

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.

Requisites: Restricted to graduate students only.

Recommended: Prerequisites LING 5410 and LING 5420 and LING 5570.

LING 6560 (3) Language Acquisition

Theories and research methods in first-language acquisition of phonology, morphology, syntax, semantics, and pragmatics.

Requisites: Restricted to graduate students only.

Recommended: Prerequisites LING 5410 and LING 5420 and LING 5430.

LING 6632 (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.

LING 6861 (1-2) Interdisciplinary Training in the Social Sciences Methods 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).

Equivalent - Duplicate Degree Credit Not Granted: SOCY 6861

Repeatable: Repeatable for up to 6.00 total credit hours. Allows multiple enrollment in term.

Grading Basis: Letter Grade

LING 6930 (1) Professional Internship

Provides a structure for CLASIC graduate students to receive academic credit for internships with industry partners that have an academic component to them suitable for graduate-level work. Participation in the program will consist of an internship agreement between a student and an industry partner who will employ the student in a role that supports the academic goals of the internship. Instructor participation will include facilitation of final assessments of student performance as well as support for any academic-related issues that may arise during the internship period. May be taken during any term following initial enrollment and participation in CLASIC graduate program courses.

Repeatable: Repeatable for up to 3.00 total credit hours.

Requisites: Restricted to graduate students only.

LING 6940 (1) Master's Candidate for Degree

Registration intended for students preparing for a thesis defense, final examination, culminating activity, or completion of degree.

Requisites: Restricted to graduate students only.

LING 6950 (1-6) Master's Thesis

Repeatable: Repeatable for up to 6.00 total credit hours.

Requisites: Restricted to graduate students only.

LING 7030 (3) Phonetic Theory and Analysis

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.

Requisites: Restricted to graduate students only.

Recommended: Prerequisites LING 5030 and LING 5410.

LING 7100 (3) Field Methods 1

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.

Requisites: Restricted to graduate students only.

Recommended: Prerequisites LING 5410 and LING 5420.

LING 7310 (3) Social Semiotic Theory

Introduces students to semiotics, the study of the use and interpretation of signs. Engages with key topics and concepts in the study of semiotic theory: e.g., indexicality, iconicity, enregisterment, embodiment, agency, and how these topics bear on research in sociolinguistics and linguistic anthropology.

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 6310 or LING 6320.

LING 7350 (3) Language and Gender in Cultural Perspective

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.

Requisites: Restricted to graduate students only.

LING 7410 (3) Phonological Theory

Provides an introduction to phonetic and morphophonological representations, with a focus on distinctive features; segments; prosodic structures; morphological structures; phonological processes and their interaction; naturalness conditions.

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 5410.

LING 7415 (2) Cognitive Science Research Applications Seminar 1

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.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 7412 and EDUC 6506 and PSYC 7415 and PHIL 7415 and SLHS 7418

Requisites: Restricted to graduate students only.

Recommended: Prerequisite EDUC 6505.

LING 7420 (3) Syntactic Theory

Covers various topics in syntactic theory.

Repeatable: Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 5420.

LING 7425 (2) Cognitive Science Research Applications Seminar 2

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.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 7422 and EDUC 6516 and PSYC 7425 and PHIL 7425 and SLHS 7428

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506.

LING 7430 (3) Semantic Theory

Explores current developments in the theory of linguistic semantics. Potential topics include truth-conditional and set-theoretic theories of meaning; cognitive semantics; semantic typology; social semiotics; the syntax-semantics interface; and the interaction between meaning conventions and conventions of usage.

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.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 7565

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 7575 (3) Computational Lexical Semantics

Computational semantics has recently been upended by the advent of language models trained on vast amounts of text. These have proven to be very effective as a starting point for building robust downstream applications, although their ability to appropriately take context and world knowledge into account is still open to question. At the same time, rich representational schemes such as Abstract Meaning Representation (AMR) have been improving performance on numerous semantic tasks, including information extraction, question-answering, co-reference, and entailment. This class will explore the theory and practice behind these two advances, examine their respective strengths and weaknesses, and brainstorm about ways of combining them.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 7575

Requisites: Restricted to graduate students only.

Recommended: Prerequisite LING 5430 Semantics and Pragmatics, LING 5832 Natural Language Processing (cross-listed as CSCI 5832) are recommended.

Grading Basis: Letter Grade

LING 7585 (3) Computational Models of Discourse and Dialogue

This course is an introduction to computational models, corpora, and processing methods for discourse and dialogue. The course will introduce students to the foundational concepts and approaches, building a base from which students can go on to do research in these areas.

Equivalent - Duplicate Degree Credit Not Granted: CSCI 7585

Recommended: Prerequisite LING 5832 Natural Language Processing.

Grading Basis: Letter Grade

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

Repeatable: 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.

Repeatable: Repeatable for up to 9.00 total credit hours. Allows multiple enrollment in term.

Requisites: Restricted to graduate students only.

LING 7900 (1-5) Independent Study

Repeatable: 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.

Repeatable: Repeatable for up to 30.00 total credit hours.

Requisites: Restricted to graduate students only.