

# LINGUISTICS (LING)

---

**Any experimental courses offered by LING can be found at:**

registrar.iastate.edu/faculty-staff/courses/explisting/ (<http://www.registrar.iastate.edu/faculty-staff/courses/explisting/>)

**Courses primarily for undergraduates:**

## **LING 101: Introduction to the Study of Linguistics**

(1-0) Cr. 1. S.

Cross-disciplinary perspectives on the study of linguistics. Applications of linguistics to real world problems. Careers in linguistics.

## **LING 119: Introduction to World Languages**

(Cross-listed with WLC). (3-0) Cr. 3.

Study of language diversity and the personal, social and political effects of diversity. Language families, attitudes toward language and language use, language and culture, multilingualism, foreign language learning, written codes, official languages, and language policy.

Meets International Perspectives Requirement.

## **LING 120: Computers and Language**

(Cross-listed with ENGL). (3-0) Cr. 3.

Introduction to the use of linguistic knowledge in computer applications today and the basic computational techniques used in such applications. The development of these techniques throughout the history of computational linguistics. How the study of language has contributed to the advancement of technology and how certain computational problems have influenced the way linguists study language.

## **LING 207: Introduction to Symbolic Logic**

(Cross-listed with PHIL). (3-0) Cr. 3. F.S.

Introduction to fundamental logical concepts and logical symbolism. Development of natural deduction through first order predicate logic with identity. Applications to arguments in ordinary English and to philosophical issues. Linguistics majors should take LING/PHIL 207 as early as possible.

## **LING 219: Introduction to Linguistics**

(Cross-listed with ENGL). (3-0) Cr. 3. F.S.

*Prereq: Sophomore classification*

Introduction to linguistic concepts and principles of linguistic analysis with English as the primary source of data. Sound and writing systems, sentence structure, vocabulary, and meaning. Issues in the study of usage, regional and social dialects, language acquisition, and language change.

## **LING 220: Descriptive English Grammar**

(Cross-listed with ENGL). (3-0) Cr. 3. F.S.

Overview of grammatical structures and functions. Parts of speech; phrase, clause, and sentence structure; sentence types and sentence analysis; rhetorical grammar and sentence style; terminology. Not a remedial, English composition, or ESL course.

## **LING 309: Introduction to Culture and Language**

(Cross-listed with ANTHR). (3-0) Cr. 3.

Introduction to study of language, culture and society from an anthropological perspective. Focus on language and thought, ethnography of speaking, discourse and narrative, writing and literacy, and media communication. Discussion of key theories and methods of linguistic anthropology. ANTHR 201 recommended.

Meets International Perspectives Requirement.

## **LING 318: Introduction to ESL methods and materials**

(Cross-listed with ENGL). (3-0) Cr. 3. F.

*Prereq: ENGL 219 or LING 219*

Introduction to methods and materials for teaching English as a Second Language (ESL) for elementary and secondary students. Strategies and resources for teaching reading, writing, speaking and listening skills. Elementary Education students must take this course in the same semester as either EDUC 280S or EDUC 480S.

## **LING 319: Studies in Language and Diversity**

(Cross-listed with ENGL). Cr. 3. Repeatable, maximum of 9 credits. F.

*Prereq: ENGL 250*

Special topics related to the role of language and linguistics in US diversity, such as Dialects and American literature, American English Accents, Legal and Social Aspects of English-only Laws in the US. Connections between language use and social diversity.

## **LING 320: Topics in Linguistic Structure**

(Cross-listed with ENGL). Cr. 3. Repeatable, maximum of 9 credits. S.

*Prereq: (ENGL 219 or LING 219); (ENGL 220 or LING 220)*

Special topics related to the study of linguistic structure. Focus on language structure in areas not covered in detail by existing courses. Topics include field linguistics, morphology, forensic linguistics, neurolinguistics, semantics, non-English phonology, acoustic phonetics, linguistic universals, and historical linguistics.

## **LING 322: Language and Society**

(Cross-listed with ENGL). Cr. 3. S.

*Prereq: ENGL 219 or LING 219*

Introduction to variation in language use in society. Survey of factors affecting language use, including background characteristics of language users, location, and purpose of interaction in addition to institutional, state, and national language policies.

**LING 324: Introduction to Teaching ESL Literacy**

(Cross-listed with ENGL). Cr. 3. F.

*Prereq: ENGL 219 or LING 219*

Introduction to the issues and methods involved in teaching literacy skills to English as a second language (ESL) learners. The nature of literacy and materials and methods for developing ESL literacy at the middle school, high school, and adult ages across multiple levels of competency.

**LING 325: Teaching Methods for ESL Learners: Oral Communication Skills**

(Cross-listed with ENGL). Cr. 3. S.

*Prereq: ENGL 219 or LING 219*

Issues and methods in teaching oral communication skills (listening, speaking, pronunciation) to English as a second language (ESL) learners. The nature of oral language ability. Materials and Methods for developing oral communication skills at middle school, high school, and adult contexts.

**LING 331: Theory of Computing**

(Cross-listed with COM S). (3-1) Cr. 3. F.S.

*Prereq: Minimum of C- in (COM S 228; MATH 166; ENGL 250); (COM S 230 or CPR E 310)*

Models of computation: finite state automata, pushdown automata and Turing machines. Study of grammars and their relation to automata. Limits of digital computation, unsolvability and Church-Turing thesis. Relations between classes of languages.

**LING 351: Introduction to Spanish-English Translation**

(Cross-listed with SPAN, US LS). (3-0) Cr. 3. F.S.

*Prereq: SPAN 303A or SPAN 303B or SPAN 304*

Introduction to the theory, methods, techniques, and problems of translation. Consideration of material from business, literature, and the social sciences. Taught in Spanish.

Meets International Perspectives Requirement.

**LING 352: Spanish Pronunciation**

(Cross-listed with SPAN). (3-0) Cr. 3. F.S.

*Prereq: SPAN 303A or SPAN 303B or SPAN 304*

An introductory study of the articulation, classification, distribution, and regional variations of the sounds of the Spanish language. Taught in Spanish.

Meets International Perspectives Requirement.

**LING 354: Introduction to Spanish-English Interpretation**

(Dual-listed with LING 554). (Cross-listed with SPAN). (3-0) Cr. 3. F.S.

*Prereq: SPAN 351*

Introduction to the theory, methods, techniques, and problems of consecutive and simultaneous interpretation. Consideration of material from business, agriculture, law, design, medicine, literature, advertisement, and sports. Taught in Spanish.

Meets International Perspectives Requirement.

**LING 371: Phonetics and Phonology**

(3-0) Cr. 3.

*Prereq: ENGL 219*

Terminology, theory, research, and applications of the science of the sounds of spoken language. Emphasis on American English and International Phonetic Alphabet.

**LING 395: Study Abroad**

Cr. 3. Repeatable, maximum of 2 times.

Instruction in issues of language policy, practice and learning.

Observation and experience with language use outside of the United States.

Meets International Perspectives Requirement.

**LING 410: Language as Data**

(Cross-listed with ENGL). Cr. 3. S.

*Prereq: Junior classification*

Methods of discovering language patterns in text documents solve practical text analysis problems in the disciplines. Fundamentals of linguistics and its role in text analysis. Practice writing R scripts to perform text analysis and visualize textual data.

**LING 413: Psychology of Language**

(Cross-listed with PSYCH). (3-0) Cr. 3.

*Prereq: PSYCH 101*

Introduction to psycholinguistics. Topics may include origin of language, speech perception, language comprehension, reading, bilingualism, brain bases of language, and computational modeling of language processes.

**LING 420: History of the English Language**

(Cross-listed with ENGL). (3-0) Cr. 3. F.S.

*Prereq: (ENGL 219 or LING 219); (ENGL 220 or LING 220)*

Comparison of English to other languages by family background and by type. Analysis of representative Old, Middle, Early Modern and present-day English texts, including both literary works and non-literary documents.

**LING 422: Women, Men, and the English Language**

(Cross-listed with ENGL, WGS). (3-0) Cr. 3. S.

*Prereq: ENGL 219 or LING 219*

The ways men and women differ in using language in varied settings and the ways in which language both creates and reflects gender divisions.

**LING 425: Second Language Learning and Teaching**

(Cross-listed with ENGL). (3-0) Cr. 3. S.

*Prereq: (ENGL 219 or LING 219); Junior classification*

The process of second language learning and principles and techniques of teaching second languages. Learning and teaching in specific situations and for particular purposes. Current applications of technology in teaching and assessment.

**LING 437: Grammatical Analysis**

(Cross-listed with ENGL). (3-0) Cr. 3. F.

*Prereq: (ENGL 219 or LING 219); (ENGL 220 or LING 220); Junior classification*

Theories and methods for analysis of syntax and morphology.

**LING 462: Contrastive Analysis of Spanish/ English for Translators**

(Cross-listed with SPAN). (3-0) Cr. 3.

*Prereq: SPAN 351*

Linguistic study of the major differences between the Spanish and English grammatical systems and their applications in the translation of Spanish to English. Taught in Spanish.

**LING 463: Contemporary Spanish Linguistics**

(Dual-listed with LING 563). (Cross-listed with SPAN). (3-0) Cr. 3.

Repeatable, maximum of 6 credits.

*Prereq: SPAN 352*

Study of various topics related to the Spanish language. Topics may include bilingualism, historical linguistics and dialectology, Spanish in the U.S., language assessment, computer-assisted language learning and instruction, and second language acquisition. Taught in Spanish. Meets International Perspectives Requirement.

**LING 471: Language and Reading Development in Children**

(3-0) Cr. 3.

*Prereq: ENGL 219 or LING 219 or PSYCH 230*

Development of spoken language, reading and writing covering semantics, syntax, morphology, phonology, and pragmatics.

**LING 486: Methods in Elementary School World Language Instruction**

(Cross-listed with EDUC, WLC). (3-0) Cr. 3. F.

*Prereq: 25 credits in a world language*

Planning, implementation, and assessment of standards-based, student-centered, and thematic instruction in the elementary (K-8) classroom. Special emphasis on K-8 students' communicative skills, cultural knowledge, and content learning.

**LING 487: Methods in Secondary School World Language Instruction**

(Cross-listed with EDUC, WLC). (3-0) Cr. 3. F.

*Prereq: 25 credits in a world language; Department Permission*

Theories and principles of contemporary world language learning and teaching. Special emphasis on designing instruction and assessments for active learning. Admission to teacher education required.

**LING 490B: Independent Study: Linguistics**

(Cross-listed with ENGL). Cr. arr. Repeatable, maximum of 9 credits. F.S.

*Prereq: 9 credits in English beyond ENGL 250; Junior classification; Department Permission*

Designed to meet the needs of students who wish to study in areas other than those in which courses are offered. No more than 9 credits of ENGL 490 may be used toward graduation.

**LING 490D: Independent Study: Linguistic Anthropology**

(Cross-listed with ANTHR). Cr. 1-5. Repeatable, maximum of 9 credits.

*Prereq: 9 credits in ANTHR; Permission of Instructor*

No more than 9 credits of Anthr 490 may be counted toward graduation.

**Courses primarily for graduate students, open to qualified undergraduates:****LING 510: Introduction to Computers in Applied Linguistics**

(Cross-listed with ENGL). (3-0) Cr. 3. F.

*Prereq: Graduate classification*

Use of software and web applications for language teaching, linguistic analysis, and statistical analysis. Issues and problems in applied linguistics related to computer methods.

**LING 511: Introduction to Linguistic Analysis**

(Cross-listed with ENGL). (3-0) Cr. 3. F.

*Prereq: Graduate classification*

Principles and methods of linguistic analysis with emphasis on phonology, morphology, and syntax. Description of linguistic variation and current theoretical approaches to linguistics.

**LING 512: Second Language Acquisition**

(Cross-listed with ENGL). (3-0) Cr. 3.

*Prereq: ENGL 511 or LING 511 or an introductory course in linguistics*

Theory, methods, and results of second language acquisition research with emphasis on approaches relevant to second language teaching.

**LING 513: Language Assessment Practicum**

(Cross-listed with ENGL). (3-0) Cr. 3. F.S.SS.

*Prereq: ENGL 519 or LING 519*

Advanced practicum in language assessment.

**LING 514: Sociolinguistics**

(Cross-listed with ENGL). (3-0) Cr. 3.

*Prereq: ENGL 511 or LING 511 or an introductory course in linguistics*

Theories and methods of examining language in its social setting. Analysis of individual characteristics (e.g., age, gender, ethnicity, social class, region), interactional factors (e.g., situation, topic, purpose) and national policies affecting language use.

**LING 515: Statistical Natural Language Processing**

(Cross-listed with ENGL, HCI). (3-0) Cr. 3.

*Prereq: STAT 330 or equivalent, recommended ENGL 219 or LING 219, or ENGL 511 or LING 511*

Introduction to computational techniques involving human language and speech in applications such as information retrieval and extraction, automatic text categorization, word prediction, intelligent Web searching, spelling and grammar checking, speech recognition and synthesis, statistical machine translation, n-grams, POS-tagging, word-sense disambiguation, on-line lexicons and thesauri, markup languages, corpus analysis, and Python programming language.

**LING 516: Methods of Formal Linguistic Analysis**

(Cross-listed with ENGL). Cr. 3. Alt. S., offered even-numbered years.

*Prereq: ENGL 219/LING 219 or equivalent.*

Data and knowledge structures for formal representation of natural language and speech data. Designing and implementing algorithms for automating linguistic analysis tasks. Conceptual issues for natural language and speech processing programming.

**LING 517: Corpus Linguistics**

(Cross-listed with ENGL). Cr. 3. Alt. S., offered even-numbered years.

*Prereq: ENGL 511 or LING 511 or an introductory course in Linguistics*

Corpus linguistics methods of language analysis, including corpus design, construction and annotation; data in corpus studies; tools and methods of analysis. Corpus methods applied in vocabulary, grammar, register and dialect variation, language change, pragmatics, semantics, stylistics, language learning and teaching, and language testing.

**LING 519: Second Language Assessment**

(Cross-listed with ENGL). (3-0) Cr. 3. S.

*Prereq: ENGL 511 or LING 511*

Principles of second language assessment including reliability, validity, authenticity and practicality. Constructing, scoring, interpreting, and evaluating second language tests for a variety of situations.

**LING 520: Computational Analysis of English**

(Cross-listed with ENGL, HCI). (3-0) Cr. 3.

*Prereq: ENGL 510 or LING 510, and ENGL 511 or LING 511*

Concepts and practices for analysis of English by computer with emphasis on the applications of computational analysis to problems in applied linguistics such as corpus analysis and recognition of learner language in computer-assisted learning and language assessment.

**LING 524: Literacy: Issues and Methods for Nonnative Speakers of English**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. F., offered even-numbered years.

*Prereq: ENGL 511 or LING 511 or an introductory course in linguistics*

Theoretical and practical issues and techniques in the teaching of literacy in a variety of contexts, involving children and adults at basic skill levels and teens and adults in academic and vocational programs.

**LING 525: Research and Teaching of Second Language Pronunciation**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. F., offered odd-numbered years.

*Prereq: ENGL 511 or LING 511 or an introductory course in linguistics*

Theoretical and practical issues and techniques in the teaching of second language pronunciation as it relates to other areas of language, especially listening and speaking skills. Topics will include segmental and suprasegmental features; intelligibility; pronunciation in language assessment; classroom, technology and individual instruction; and research issues. Topics will be relevant to those intending to teach or research in various contexts.

**LING 526: Technology for Language Learning**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. S., offered odd-numbered years.

*Prereq: ENGL 511 or LING 511 or equivalent*

Theory, research, and practice in computer use for teaching nonnative speakers of English. Methods for planning and evaluating computer-based learning activities.

**LING 527: Discourse Analysis**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. S., offered odd-numbered years.

*Prereq: ENGL 511 or LING 511 or an introductory course in linguistics*

Methods and theoretical foundations for linguistic approaches to discourse analysis. Applications of discourse analysis to the study of texts in a variety of settings, including academic and research contexts.

**LING 528: English for Specific Purposes**

(Cross-listed with ENGL). (3-0) Cr. 3.

*Prereq: ENGL 511 or LING 511 or an introductory course in linguistics*

Issues and techniques in analyzing, teaching, and assessing English for specific purposes. Topics include theories of specific purpose language use, analysis of learner needs in target language contexts, and corpus-informed syllabus and materials development for teaching and assessment.

**LING 530: Technology and Oral Language**

(Cross-listed with ENGL). Cr. 3. Alt. F., offered even-numbered years.

*Prereq: ENGL 219 or ENGL 511 or equivalent.*

Structure and description of oral language and discourse. How spoken language is linguistically described, analyzed, and taught for research and for education. Using technology to record, transcribe, and analyze spoken language at all levels of linguistic structure.

**LING 537: Corpus Approaches to Grammatical Analysis**

(Cross-listed with ENGL). (3-0) Cr. 3.

*Prereq: ENGL 220 or LING 220; ENGL 219, LING 219, ENGL 511, LING 511, or introductory course in linguistics; graduate classification*

Corpus-informed analysis of syntax in authentic writing and speech, with emphasis on approaches used in applied linguistics.

**LING 554: Introduction to Spanish-English Interpretation**

(Dual-listed with LING 354). (Cross-listed with SPAN). (3-0) Cr. 3. F.S.

*Prereq: SPAN 351*

Introduction to the theory, methods, techniques, and problems of consecutive and simultaneous interpretation. Consideration of material from business, agriculture, law, design, medicine, literature, advertisement, and sports. Taught in Spanish. Meets International Perspectives Requirement.

**LING 563: Contemporary Spanish Linguistics**

(Dual-listed with LING 463). (Cross-listed with SPAN). (3-0) Cr. 3.

Repeatable, maximum of 6 credits.

*Prereq: SPAN 352*

Study of various topics related to the Spanish language. Topics may include bilingualism, historical linguistics and dialectology, Spanish in the U.S., language assessment, computer-assisted language learning and instruction, and second language acquisition. Taught in Spanish. Meets International Perspectives Requirement.

**LING 588: Supervised Practice Teaching in Teaching English as a Second Language**

(Cross-listed with ENGL). (1-5) Cr. 3. F.S.

*Prereq: 9 credits toward the TESL/TEFL Certificate or 15 credits toward the TESL/AL master's degree.*

Intensive observation of ESL instruction and supervised practice in teaching learners of English in a context appropriate to the student teacher's goals. ENGL 588 cannot be used for teacher licensure.

**LING 590: Special Topics**

(Cross-listed with ENGL). Cr. arr. Repeatable.

*Prereq: Permission of the Director of Graduate Education according to guidelines available online*

**LING 590B: Special Topics: Teaching English as a Second Language (TESL)/Applied Linguistics**

(Cross-listed with ENGL). Cr. arr. Repeatable.

*Prereq: Permission of the Director of Graduate Education according to guidelines available online*

**LING 590G: Special Topics: Applied Linguistics and Technology**

(Cross-listed with ENGL). Cr. arr. Repeatable.

*Prereq: Permission of the Director of Graduate Education according to guidelines available online*

**LING 591: Studies in Applied Linguistics**

(3-0) Cr. 3. Repeatable, maximum of 6 credits.

*Prereq: 6 credits in TESL/Applied Linguistics*

Intensive study of applied linguistic theory as it relates to specific issues in language acquisition, teaching, or use.

**LING 591B: Directed Readings: Teaching English as a Second Language (TESL)/Applied Linguistics**

(Cross-listed with ENGL). Cr. arr. Repeatable.

**LING 591G: Directed Readings: Applied Linguistics and Technology**

(Cross-listed with ENGL). Cr. arr. Repeatable.

**Courses for graduate students:****LING 623: Research Methods in Applied Linguistics**

(Cross-listed with ENGL). (3-0) Cr. 3. Repeatable.

Survey of research methods used in applied linguistics. Focus on conceptualizing and conducting research studies, including the process of developing research questions, gathering data, choosing data collection measures, and coding and analyzing data. Examples from a range of research approaches in the journals in applied linguistics and related areas are evaluated. The course prepares students to be critical consumers of quantitative and qualitative applied linguistics research and able to design and carry out their own research studies.

**LING 623A: Research Methods in Applied Linguistics: Quantitative**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. S., offered odd-numbered years.

*Prereq: ENGL 511 or LING 511*

Survey of quantitative research methods used in applied linguistics.

**LING 623B: Research Methods in Applied Linguistics: Qualitative**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. S., offered even-numbered years.

*Prereq: ENGL 511 or LING 511*

Survey of qualitative research methods used in applied linguistics.

**LING 626: Computer-Assisted Language Testing**

(Cross-listed with ENGL). (3-0) Cr. 3. Alt. S., offered even-numbered years.

*Prereq: ENGL 510 or LING 510, ENGL 511 or LING 511, ENGL 519 or LING 519*

Principles and practice for the use and study of computers and the Internet in second language assessment.

**LING 630: Seminar in Applied Linguistics**

(Cross-listed with ENGL). (3-0) Cr. 3. Repeatable.

*Prereq: ENGL 510 or LING 510, ENGL 511 or LING 511*

Topic changes each semester. Topics include advanced methods in natural language processing, technology and literacy in a global context, feedback in CALL programs, technology and pronunciation, and advances in language assessment.