813 Seminar

Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to graduate students in Large Animal Clinical Sciences.

Individualized program of seminar attendance culminating in a student-presented seminar relevant to a specific discipline.

825 **Experimental Surgical Techniques for** Animal Research

Fall of odd years. 2(1-2) RB: B.S. degree. R: Open only to graduate students. Approval of department.

Humane treatment of research animals. Anesthesia, aseptic surgical techniques. Instrumentation for surgery, suture materials and patterns. Tissue handling and wound healing.

829 **Design and Conduct of Epidemiological** Studies and Clinical Trials

Spring. 3(2-2) Interdepartmental with Epidemiology. RB: (VM 533) or approval of department. R: Open only to graduate students in the colleges of Human Medicine, Osteopathic Medicine, or Veterinary Medi-

Applied analytical methods in experimental design. Assessment of health and disease status of animal and human populations. Risk assessment and interpretation of clinical trials.

Epidemiology of Foodborne Diseases and Food Safety: An Overview 830

Fall. 3(3-0) Interdepartmental with Epidemiology. RB: Advanced undergraduate courses in biology, microbiology, biological sciences, biochemical sciences, food technology. R: Approval of department.

Epidemiologic survey of important foodborne diseases addressing recent trends. Sources of surveillance data. Measurement and management of risk factors associated with major foodborne diseases. Tracking foodborne pathogens from farm to table. Introduction to Hazard Analysis Critical Control Points (HACCP).

Master's Thesis Research

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in Large Animal Clinical Sciences

Master's thesis research.

901

Investigating the Lung
Fall of even years. 2(2-0) Interdepartmental with Physiology; Pathology. R: Open only to graduate students.

Integrative biology of the lung; structure and function; molecular, cellular, and organ responses to injury.

999 **Doctoral Dissertation Research**

Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open only to doctoral students in Large Animal Clinical Sciences

Doctoral dissertation research.

LATIN LTN LINGUISTICS

Department of French, Classics, and Italian College of Arts and Letters

Elementary Latin I

Fall. 4(4-0) R: No previous experience in Latin or designated score on Latin placement test.

Fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.

Elementary Latin II

Spring. 4(4-0) P: (LTN 101) or designated score on Latin placement test.

Continued study of the fundamentals of vocabulary, grammar, and syntax. Translation of elementary

201 **Latin Prose**

Fall. 4(4-0) P: (LTN 102) or designated score on Latin placement test.

Intermediate-level Latin prose based on readings of such authors as Sallust, Livy, and Cicero.

Latin Poetry

Spring. 4(4-0) P: (LTN 201)

Intermediate-level Latin poetry of the Republic and Augustan periods.

Independent Study 290

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department.

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

301 Republican Prose and Poetry (W)

Fall of even years. 3(3-0) P: (LTN 202) and completion of Tier I writing requirement.

Cicero, Caesar, Sallust, Plautus, Terence, Catullus, and Lucretius.

Augustan Poetry (W)

Spring of odd years. 3(3-0) P: (LTN 202) and completion of Tier I writing requirement. Poetry of Virgil, Horace, Propertius, Tibullus, and

401 **Augustan and Early Imperial Prose**

Fall of odd years. 3(3-0) P: (LTN 302)

Augustan and Early Imperial prose writers. Livy, Augustus, Tacitus, Petronius, Suetonius, and others.

402 Imperial Poetry

Ovid.

Spring of even years. 3(3-0) P: (LTN 302) Poets of the Empire: Lucan, Seneca, Persius, Juvenal, Silius Italicus, Statius, and others.

490 Independent Study

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of depart-

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

499 **Senior Thesis**

Fall, Spring. 3 credits. P: (LTN 402) R: Approval of department.

Senior thesis under the direction of a faculty member

Department of Linguistics and Germanic, Slavic, Asian and African Languages College of Arts and Letters

Introduction to Language

Fall, Spring. 3(3-0) Not open to students with credit in LIN 401.

LIN

Linguistic structure of language. Applications of linguistics to other disciplines. Human and societal aspects of the nature, use, acquisition, and history of languages.

225 Women and Language

Fall. 3(3-0) Interdepartmental with Women's Studies.

Women and language in societies around the world. Issues such as status and verbal politeness, importance of names, gender differences in language use, women's multilingualism, sexist language, gendered language development in children.

291 **Special Topics in Linguistics**

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

Special topics supplementing regular course offerings proposed by faculty on a group study basis.

Introduction to Linguistics

Fall, Spring. 4(4-0) Not open to students with credit in LIN 200.

Basic goals, concepts, methods, and research results of modern theoretical and applied linguistics. Examples from a variety of languages.

History of Linguistics Spring. 3(3-0) P: (LIN 200 or LIN 401)

Origin and development of linguistic studies from ancient Greece to the present. Foundation for the understanding of contemporary issues in linguistics and in society.

Introduction to Phonetics and Phonology

Fall, Spring. 3(3-0) P: (LIN 200 or LIN 401) Phonetics, phonetics features and components, phonological phenomena, phonemic analysis, sound systems and data analysis.

428 Writing Systems

Fall of odd years. 3(3-0) P: (LIN 200 or LIN

Writing systems of the world and their history and organization in the context of linguistic science. Special attention is given to the typology of these systems and the ways they relate to the structure of spoken language.

Introduction to Morphology 431

Spring. 3(3-0) RB: (LIN 401 or concurrently or LIN 200)

Word structure, word formation, morphological analysis, interface with phonology and syntax, and theoretical issues in morphology. Data from diverse languages of the world.

Introduction to Syntax

Fall, Spring. 3(3-0) P: (LIN 200 or LIN 401)
Structure of sentences and structural relations among phrases. Methods of syntactic analysis and argumentation.

437 **Semantics and Pragmatics**

Fall. 3(3-0) P: (LIN 200 or LIN 401)

Semantic properties and relations. Entailment, ambiguity, theories of word and sentence meaning, and logical form. Topics in pragmatics, such as presupposition, conversational implicature, speech acts

441 **Historical Linguistics**

Fall. 3(3-0)

Types of linguistic change and the methods used by linguists to study the historical development of languages and language families.

450

Child Language Acquisition Spring. 3(3-0) P: (LIN 200 or LIN 401)

Linguistic issues, perspectives and research on the acquisition of language by children. Phonology, lexicon, morphology, syntax, semantics. Universal principles, variation, contexts. Implications for related disciplines.

455 Neurolinguistics

Fall. 3(3-0) P: (LIN 200 or LIN 401)

Theoretical approaches to the study of language and the brain. Perspectives on normal and impaired linguistic functioning offered by lesion studies and brain-imaging techniques. The genetic basis of language as evidenced in family and twin studies.

463 Introduction to Cognitive Science

Spring. 3(3-0) Interdepartmental with Philosophy; Psychology. RB: (PHL 462 or LIN 401 or CSE 440 or PSY 200)

Cognitive processing of information by animals,

humans, and computers. Relevant issues in philosophy, linguistics, psychology, neurophysiology, and artificial intelligence.

Sociolinguistics

Fall. 3(3-0) P: (LIN 200 or LIN 401)

Linguistic and social psychological bases for language choice. Accounts of language variation and related larger constructs such as speech community, communicative competence, dialect, and language change.

475 Introduction to Computational Linguistics

Fall. 3(3-0) Interdepartmental with Computer Science and Engineering. P: (CSE 232 and LIN 401)

Computer science of linguistic theories and their application in natural language processing systems. Stochastic and categorical automata for morphological analysis. Rule systems for grammars. Parsing algorithms for syntactic and semantic analysis, with implications for cognitive models of human sentence processing. Probabilistic models of linguistic events.

490 Independent Study

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Approval of de-

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

491 Special Topics

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P: (LIN 200 or LIN 401) R: Approval of department.

Special topics supplementing regular course offerings proposed by faculty on a group study basis.

499 Senior Thesis Research (W)

Fall, Spring. 2 credits. P: Completion of Tier I writing requirement. R: Approval of de-

Individual research project supervised by a faculty member. Demonstration of student's ability to conduct independent research and prepare an undergraduate thesis.

Theory and Practice of Teaching a Non-

Fall. 3(3-0) RB: (LIN 401) and proficiency in the language. Not open to students with credit in ENG 807 or ENG 808 or FRN 800 or GRM 810 or RUS 804 or SPN 800.

Theories and practice of college-level teaching of a non-European language (e.g., Japanese) to nonnative speakers. Teaching of pronounciation, writing system, listening, speaking, reading, writing, and culture. Testing, contrastive grammar, error analysis, material development, curriculum design, and lesson planning.

824 Phonological Theory I

Spring. 3(3-0) RB: (LIN 424)

Major phonological theories, argumentation, and advanced skills of phonological analysis.

825 Phonological Theory II

Fall. 3(3-0) RB: (LIN 824)

Issues in phonology. Current controversies and trends of research in phonology.

Syntactic Theory I 834

Spring. 3(3-0) P:M: (LIN 434)

Theories, current issues, and research of the structure of sentences and structural relations among phrases. Methods of syntactic analysis and argumentation.

835 Syntactic Theory II

Fall. 3(3-0) P:M: (LIN 834)

Issues in syntax. Current research and controver-

837 **Advanced Studies in Semantics and Pragmatics**

Fall of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (LIN 437)

Selected topics in semantics and/or pragmatics, such as noun phrase interpretation, tense and aspect, conversational implicature, and negation. Advanced level analytical techniques.

Advanced Studies in Child Language Acquisition

Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (LIN 434)

Children's native language acquisition: research methods, crosslinguistic data, and explanations from linguistic theory. Topics such as learnability, parameters, innateness, narratives, individual variation, and bilingualism.

Advanced Studies in Neurolinguistics

Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (LIN 434 or LIN 424 or LIN 455)

Study of the computation of language in the brain and its contribution to understanding brains and language. Lesion research and research using neuroimaging techniques such as Magnetoencephalography (MEG), Electroencephalography (EEG), Positron Emission Tomography (PET), functional Magnetic Resonance Imaging (fMRI), and Transcranial Magnetic Stimulation (TMS).

867 **Nature and Practice of Cognitive Science**

Spring. 3(3-0) Interdepartmental with Zoology; Psychology; Philosophy; Computer Science and Engineering. Administered by Department of Zoology. RB: Undergraduate course work in behavioral biology, cognitive psychology, philosophy, linguistics, or artificial intelligence.

Survey of how different disciplines explore the cognitive processes underlying intelligent behavior.

Advanced Studies in Sociolinguistics

Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (LIN 471)

Linguistic and societal bases for language choice. Topics exemplifying modern sociolinguistics including concerns of power, politeness, gender, quantitative microsociolinguistics, social/cultural differences, and ethnomethodology.

875 **Advanced Computational Linguistics**

Spring. 3(3-0) Interdepartmental with Computer Science and Engineering. P:M: (LIN

Cutting-edge research in computational linguistics. Expressive formalisms such as tree-adjoining, typelogical and multi-component string grammars, and their associated parsing and learning problems. Robustness for spoken language understanding. Mathematical theories of language learnability. Logic and probability of finite state techniques.

881 The Structure of a Non-European Language

Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (LIN 424 and LIN 434) Not open to students with credit in ENG 845 or ENG 846 or FRN 806 or GRM 805 or RUS 806 or SPN 806 or SPN 806.

Survey of the structure of a non-European language; e.g., Amharic, Chinese, Japanese, Hausa. General overview of the language, including history, phonology, morphology, syntax, semantics, pragmatics, discourse and variation. Particular attention to the features generally nonexistent in European lan-

890 Independent Study

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

Special Topics 891

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: At least 6 credits in linguistics courses at the 400 level or above.

Special topics supplementing regular course offerings proposed by faculty on a group study basis for graduate students.

Seminar in Linguistics

Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: At least 6 credits in linguistics courses at the 400 level or above. R: Open only to graduate students in the Linguistics major.

Directed original research on current topic in linguis-

898 Master's Research

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of department.

Directed research in support of Plan B master's degree requirements.

899 Master's Thesis Research

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Directed research leading to a master's thesis, used in partial fulfillment of Plan A master's degree requirements.

999 Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 99 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Approval of department.

LL

Doctoral dissertation research.

LINGUISTICS AND LANGUAGES

Department of Linguistics and Germanic, Slavic, Asian and African Languages College of Arts and Letters

151 Beginning Individualized Less Commonly Taught Languages

Fall. 4(4-1) A student may earn a maximum of 12 credits in all enrollments for this course. RB: No prior experience learning the language. Students' language ability will be assessed in the first few days of the course.

Individualized study of any of the less commonly taught languages at the elementary level. Speaking, reading, and writing. Development of oral proficiency skills.

152 Beginning Individualized Less Commonly Taught Languages II

Spring. 4(4-1) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Further individualized work on speaking, reading and writing a less commonly taught language. Continued development of oral proficiency skills.

250A Topics in National Cinemas: German Cinema

Spring. 3(3-2)

Development of German cinematic styles and traditions in their historical and social context. Major films and directors. Introduction to film technique and analysis. Taught in English.

250B Topics in National Cinemas: East Asian Cinema

Spring. 3(3-2)

Development of East Asian cinematic styles and traditions in their historical and social context. Major films and directors. Introduction to film technique and analysis. Taught in English.

250C Topics in National Cinemas: Israeli Cinema

Spring. 3(3-2)

Development of Israeli cinematic styles and traditions in their historical and social context. Major films and directors. Introduction to film technique and analysis. Taught in English.

250D Topics in National Cinemas: Russian and Soviet Cinema

Spring. 3(3-2)

Development of Russian and Soviet cinematic styles and traditions in their historical and social context. Major films and directors. Introduction to film technique and analysis. Taught in English.

251 Intermediate Individualized Less

Commonly Taught Language I Fall. 4(4-1) A student may earn a maximum

of 12 credits in all enrollments for this course. R: Approval of department.

Intermediate-level individualized work on speaking, reading and writing a less commonly taught language. Continued development of oral proficiency skills.

252 Intermediate Individualized Less Commonly Taught Languages II

Spring. 4(4-1) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Further intermediate-level individualized work on speaking, reading and writing a less commonly taught language. Continued development of oral proficiency skills.

261 Advanced Less Commonly Taught Language I

Fall. 4(4-0) A student may earn a maximum of 8 credits in all enrollments for this course. RB: Oral proficiency in the language learned in the home or in a bilingual school environment. R: Approval of department.

Advanced-level language class specifically for the heritage language speaker who acquired oral proficiency in the language at home or in a bilingual school environment. Development of advanced level oral and aural skills, as well as academic competence in the written language and acquisition of the writing system.

262 Advanced Less Commonly Taught Language II

Spring. 4(4-0) A student may earn a maximum of 8 credits in all enrollments for this course. RB: Oral proficiency in the language learned in the home or in a bilingual school environment R: Approval of department.

Further advanced-level language study specifically for the heritage language speaker who acquired oral proficiency in the language at home or in a bilingual school environment. Development of near-native oral and aural skills, as well as native-like mastery of the written language and writing system.

290 Independent Study

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.

Special projects in Linguistics and Languages arranged by an individual student and a faculty member in areas supplementing regular course offerings.

352 Asian American Writing

Spring. 3(3-0) Interdepartmental with English. Administered by Department of English. P: Completion of Tier I writing requirement. RB: 3 credits of literature.

Writing by Americans of Asian descent. Attention to artistic, historical, and cultural contexts.

361 Asian Literature in English or in English Translation

Spring. 3(3-0) Interdepartmental with English. Administered by Department of English. P: Completion of Tier I writing requirement. RB: 3 credits of literature.

Literary traditions of a major Asian civilization--Chinese, Indian or Japanese. Historical, cultural, and international contexts of Asian literature.

380 Methods of Teaching Foreign Languages

Spring of odd years. 3(3-0) P: (GRM 202 or RUS 202 or CHS 202 or JPN 202) R: Open only to undergraduate students in the East Asian Languages and Cultures or German or Russian major with a teacher certification option or in the German or Japanese or Russian minor available for teacher certification.

Methods of teaching Germanic, Slavic, Asian, and African languages for teacher education candidates. Theories of second language acquisition and practical application of teaching strategies.

413 Slavic Language I

Fall. 4(4-1) A student may earn a maximum of 8 credits in all enrollments for this course. R: Approval of department. SA: RUS 413

Development of skills in speaking, reading, listening comprehension, and writing in a Slavic language other than Russian.

413A Polish I

Fall. 4(4-1) R: Approval of department. SA: RUS 413A

Development of skills in speaking, reading, listening comprehension, and writing in Polish.

414 Slavic Language II

Spring. 4(4-1) A student may earn a maximum of 8 credits in all enrollments for this course. P: (LL 413) R: Approval of department. SA: RUS 414

Further development of skills in speaking, reading, listening comprehension, and writing in a Slavic language other than Russian.

414A Polish II

Spring. 4(4-1) P: (LL 413A) R: Approval of department. SA: RUS 414A

Further development of skills in speaking, reading, listening comprehension, and writing in Polish.

474 Aesthetic Theory and Modernism

Fall. 4(4-0) Interdepartmental with Philosophy; English; History of Art; Music; Romance Languages. Administered by Department of Philosophy. R: Not open to freshmen or sophomores.

Problems, assumptions, and arguments of modern aesthetic theory examined in the context of debates over modernity and modernist artistic practice.

490 Independent Study

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.

Special projects in linguistics and languages arranged by an individual student and a faculty member in areas supplementing regular course offerings

821 Proseminar in Comparative Literature

Fall. 3(3-0) Interdepartmental with Arts and Letters; English; Romance Languages. Administered by College of Arts and Letters. R: Open only to graduate students in the College of Arts and Letters.

History and practice of comparative literature including foundational concepts and current directions.