666. Equine Herd Health Clerkship
Winter, Spring, Summer. 3 credits.
Completion of 9 terms of professional program, approval of department.
Establishing and maintaining herd health programs for equine operations. Reproduction, parasite control, immunization, and diagnostic medicine and surgery in the field.

668. Swine Herd Health Clerkship
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.
Swine diseases and related production problems encountered in swine herd health programs.

669. Advanced Food Animal Clerkship
(Freshmen only) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.
Advanced, supervised food animal surgery and medicine.

670. Preceptorial Clerkship
Fall, Winter, Spring, Summer. 6 credits. Completion of 9 terms of professional program, approval of department. Students may not receive credit in both V M 610 and LCS 674.
Applicants for predetermined meat animal clinical science. Students participate in all activities in assigned private practices tutored by practitioners with adjunct faculty appointments.

672. Veterinary Nutrition for Livestock
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department. Students must be enrolled in a veterinary program.
Evaluating the nutritional status and rations of livestock.

809. Problems in Large Animal Surgery
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 12 credits. Approval of department.
Elective work in selected surgical research problems compatible with student's interest and ability.

811. Problems in Large Animal Medicine
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 12 credits. Approval of department.
Elective work in selected medicine-related research problems compatible with student's interest and ability.

813. Seminar
Fall, Winter, Spring, Summer. 1 credit.

825. Fundamental Biomedical Experimental Techniques
Fall. 3(2-3) Students enrolled in a graduate degree program, approval of department.
Fundamentals of humane treatment of animals, anesthesia, aseptic techniques, instrumentation, suture materials and patterns, tissue handling and wound healing for experimental animal research.

827. Comparative Theriogenology
Winter. 3(3-0) V M 580 or approval of department.
Comparative pathophysiology of the reproductive system of domestic animals with emphasis on clinical theriogenology.

Linguistics and Germanic, Slavic, Asian and African Languages — Descriptions of Courses

828. Tropical Animal Health and Production
Spring of even-numbered years. 3(2-2) ANS 485 or completion of 7 terms of the professional program.
Impact of animal health on livestock production, livestock production systems, human welfare, and socioeconomic development of developing countries, especially in Africa. Epidemiology and control of major diseases such as rinderpest, trypanosomiasis, and other viral epidemics.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 18 credits. Students enrolled in a graduate degree program, approval of department.
Research on thesis problems.

901. Investigating the Lung
Fall of even-numbered years. 3(3-0) Approval of department. Interdepartmental with the departments of Pathology and Physiology.
Classic and current concepts of respiratory structure and function in health and disease and mechanisms of lung injury.

921. Pathology of Nutritional and Metabolic Diseases
Spring of odd-numbered years. 4(3-2) ANT 420, ANS 555, BCH 459, HNF 482 recommended.
Interdepartmental with Human Nutrition and Foods.
Development, physiopathology and morphologic pathology of nutritional and metabolic diseases including carbohydrate, protein, fatty acid, vitamin and mineral deficiencies, their experimental induction and their medical or economic significance.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

360. World Literature in English
Fall. 3(3-0) Interdepartmental with and administered by the Department of English.
Representative works, not from England or the United States, which were written originally in English, especially the English literature of present or former British Commonwealth nations, and nations from the Middle East and Africa.

361. World Literature in English Translation
Winter. 3(3-0) Interdepartmental with the Department of English.
Significant and characteristic works of the Orient, the Middle East, and Africa in English translation.

362. Genre and Themes in World Literature
Spring. 3(3-0) Interdepartmental with and administered by the Department of English.
Work will center each term around a single literary genre, type or theme. Typical examples: The Quest, Literature of Revolt, Satire. Literary examples will be selected from several national literatures.

434. Aesthetic Theory and Modernism
Fall. 4(4-0) Juniors. Interdepartmental with History of Art, Romance Languages, the departments of English, and Philosophy, and the School of Music. Administered by the Department of Philosophy.
Problems, assumptions, and arguments of modern aesthetic theory examined in the context of debates over modernity and modernist artistic practice.

499. Special Projects
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 16 credits. Approval of department.
Work in areas outside regular course offerings.

African Languages — AFR

101. African Languages — Elementary
Fall. 4(4-1) May reenroll for AFR 101-102-103 sequence in more than one African language.
Comprehension and speaking taught by a linguist with native informants. Offerings include Bemba, Hausa, Ibo, Fijigini, Swahili, Yoruba. These and other African languages are taught upon sufficient demand and availability of instructors.

102. African Languages — Elementary
Winter. 4(4-1) May reenroll for AFR 101-102-103 sequence in more than one African language. AFR 101.
Continuation of AFR 101.

103. African Languages — Elementary
Spring. 4(4-1) May reenroll for AFR 101-102-103 sequence in more than one African language. AFR 102.
Continuation of AFR 102.

201. African Languages — Intermediate
Fall. 4(5-0) May reenroll for AFR 201-202-203 sequence in more than one African language. AFR 103 in appropriate language or approval of department.
Continuation of African Languages — Elementary. Comprehension, speaking, reading and writing taught by a linguist with native informants. See AFR 101 for languages available.
202. African Languages—Intermediate
Winter. 4(4-0) May reenroll for AFR 200-202-203 in more than one African Language. AFR 201.
Continuation of AFR 201.

203. African Languages—Intermediate
Spring. 4(4-0) May reenroll for AFR 201-202-203 in more than one African language. AFR 202.
Continuation of AFR 202.

418. Critical Issues in Contemporary Africa (MTC)
Fall, Spring. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. One course on African subject and approval of instructor. Interdepartmental with the departments of Anthropology, Geography, History, Political Science, and Sociology. Administered by the Department of History.

Four separate multidisciplinary topics will be offered at different times: The Horn of Africa, Southern Africa, Africa and the Americas, Social Impact Studies.

420. African Literature in Translation
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 9 credits. Juniors or approval of department. Development and influence of the ideas, forms and motifs of African literatures in the literatures of the world.

450. African Languages—Advanced
Fall, Winter, Spring. 1 to 10 credits. May reenroll for a maximum of 18 credits. Approval of department. Advanced training or specialized research in particular African languages.

839. African Research
(IDA 839.) Fall, Winter, Spring. 2 to 4 credits. May reenroll for a maximum of 8 credits. Graduate standing or approval of instructor. Interdepartmental with the departments of Anthropology, Educational Administration, Geography, History, Political Science, and Sociology. Administered by the Department of Anthropology. African-related archival and field research topics and methodologies viewed from perspective of relevant social science and humanistic disciplines associated with the African Studies Center.

Arabic

101. Elementary Arabic
Fall. 4(4-1) Introduction to Modern Standard Arabic, with pronunciation and conversation practice, reading and writing, and basic grammatical analysis.

102. Elementary Arabic
Winter. 4(4-1) ARB 101.
Continuation of ARB 101.

103. Elementary Arabic
Spring. 4(4-1) ARB 102.
Continuation of ARB 102.

201. Intermediate Arabic
Fall. 4(4-1) ARB 103.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Arabic-speaking world. Further development of language skills.

202. Intermediate Arabic
Winter. 4(4-1) ARB 201.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Arabic-speaking world. Further development of language skills.

203. Intermediate Arabic
Spring. 4(4-1) ARB 202.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Arabic-speaking world. Further development of language skills.

Chinese

101. Elementary Chinese
Fall. 4(4-1) Introduction to Mandarin, the official spoken language of China, with emphasis on pronunciation drill and conversation practice.

102. Elementary Chinese
Winter. 4(4-1) CHS 101.
Continued practice in conversation and aural comprehension; introduction to the reading and writing of Chinese characters.

103. Elementary Chinese
Spring. 4(4-1) CHS 102.
Continuation of CHS 101 and grammatical analysis of basic Chinese sentence structure.

200H. Honors Work
Fall, Winter, Spring. 1 to 10 credits. May reenroll for a maximum of 18 credits. Approval of department.

201. Second-Year Chinese
Fall. 3(3-0) CHS 202.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Chinese-speaking world. Further development of language skills.

202. Second-Year Chinese
Winter. 3(3-0) CHS 201.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Chinese-speaking world. Further development of language skills.

203. Second-Year Chinese
Spring. 3(3-0) CHS 202.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Chinese-speaking world. Further development of language skills.

German and Russian Courses

Students who have had high school work in the foreign language in which they wish to continue their studies must take a placement examination in that language. Placement in the appropriate course is determined by the results of this examination. University credit is not given for courses waived by performance on the placement examination.

498. Topics in Comparative Literature
Fall, Winter. Spring. 3(3-0) or 4(4-0) May reenroll for a maximum of 12 credits if different topics are offered. Interdepartmental with Romance Languages and the Department of English. Administered by Romance Languages.

Varying topics on relationships among writers, themes, genres, movements and periods in different national literatures, and between literature and other arts.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Elementary German Fall, Winter, Spring, Summer 4(4-1)</td>
<td>German language, civilization, and culture. Development of language skills in contemporary German. Independent practice in the language laboratory.</td>
</tr>
<tr>
<td>202</td>
<td>Intermediate German Fall, Winter, Spring, Summer 4(4-0)</td>
<td>Further development of language skills.</td>
</tr>
<tr>
<td>203</td>
<td>Intermediate German Fall, Winter, Spring, Summer 4(4-0)</td>
<td>Further development of language skills.</td>
</tr>
<tr>
<td>241</td>
<td>German Literature in English Translation (A) Fall, 3(3-0) Knowledge of German not required. Selections from narrative prose, drama, and lyric poetry chosen to encourage and develop an appreciation of German literature.</td>
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<tr>
<td>242</td>
<td>German Literature in English Translation (A) Winter, 3(3-0) Knowledge of German not required. The cultural heritage of the German peoples. Readings and discussions in German based on selected nonliterary texts since World War II.</td>
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<tr>
<td>243</td>
<td>German Literature in English Translation (A) Spring, 3(3-0) Knowledge of German not required. Artistic, historical, and cultural analysis of German film. Weekly film viewings.</td>
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<tr>
<td>299</td>
<td>Special Projects Fall, Winter, Spring, Summer 1 to 12 credits. May repeat for a maximum of 12 credits. Approval of department. Work in areas outside regular course offerings.</td>
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<tr>
<td>321</td>
<td>German Composition and Conversation Fall, 3(3-0) GRM 203. Essential and difficult points of grammar reviewed. Written and oral reports; active participation in class discussion.</td>
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<tr>
<td>322</td>
<td>German Composition and Conversation Winter, 3(3-0) GRM 201. Continuation of GRM 201.</td>
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<tr>
<td>323</td>
<td>German Composition and Conversation Spring, 3(3-0) GRM 202. Continuation of GRM 202.</td>
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<tr>
<td>331</td>
<td>German in International Business Communication I Fall, 3(3-0) GRM 203. Thorough grammar review based upon business vocabulary. German business communication formats and procedures: letter, memorandum, telephone, telex, resume, job description, and application.</td>
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<tr>
<td>332</td>
<td>German in International Business Communication II Winter, 3(3-0) GRM 301. Continuation of GRM 301.</td>
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<tr>
<td>333</td>
<td>German in International Business Communication III Spring, 3(3-0) GRM 202. Continuation of GRM 202.</td>
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<tr>
<td>334</td>
<td>Introduction to German Civilization and Culture Winter, 3(3-0) GRM 203. Approval of department. The cultural heritage of the German peoples. Readings and discussions in German based on selected nonliterary texts since World War II.</td>
<td></td>
</tr>
<tr>
<td>337</td>
<td>Contemporary German Civilization and Culture Spring, 3(3-0) GRM 203. Approval of department. The cultural heritage of the German peoples. Readings and discussions in German based on selected nonliterary texts since World War II.</td>
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<tr>
<td>340</td>
<td>German Film Spring, 3(3-2) One of the following: GRM 203, A L 210 or TC 280 or approval of department. Interdepartmental with the College of Arts and Letters. Artistic, historical, and cultural analysis of German film. Weekly film viewings.</td>
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<tr>
<td>351</td>
<td>Introduction to German Literature Fall, 3(3-0) GRM 203 or approval of department. Major and representative dramas, novels, lyric poems and ballads of German literature selected from the works of great authors. Methods of literary analysis, terminology, periodization.</td>
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<tr>
<td>352</td>
<td>Introduction to German Literature Winter, 3(3-0) GRM 203 or approval of department. Reading and interpretation of representative works of eighteenth and nineteenth century authors. Methods and language of literary criticism. Study of form and expression in major literary works.</td>
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<tr>
<td>410</td>
<td>German Reading Skills Winter, Summer, 3(3-0) GRM 201 or 202. Not open to students with credit in GRM 301 or higher. Designed for those in scientific or other fields who wish to be able to read scholarly material. An intensive presentation of German grammar with emphasis on those features and techniques necessary for reading and translation.</td>
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<tr>
<td>411</td>
<td>German Reading Skills Spring, Summer, 3(3-0) GRM 203 or approval of department. Reading and translation of works in the student's field of interest. Completion of GRM 410 and 411 with 3.0 or better will satisfy the Ph.D. reading requirement in most departments.</td>
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<tr>
<td>421</td>
<td>Advanced Composition and Conversation Fall, 3(3-0) GRM 201 or 202. Thorough grammar review. Oral reports and discussion of cultural topics. Written papers with critiques.</td>
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<tr>
<td>425</td>
<td>German in International Business Communication IV Winter, 3(3-0) GRM 203. Continuation of GRM 203. The world of German economics and business. Lecture and discussion in German covering international policy, German/American corporate investment, corporations, communication problems, German business press.</td>
<td></td>
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<tr>
<td>426</td>
<td>German Style Spring, 3(3-0) GRM 203 or approval of department. Principles of German style, based on representative selections from modern German cultural history. Conducted in German.</td>
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<tr>
<td>434</td>
<td>Contrasting Structures of English and German Fall of odd-numbered years, 3(3-0) Linguistic analysis of the structures of English and German. Recommended for those intending to teach German.</td>
<td></td>
</tr>
<tr>
<td>435</td>
<td>History of the German Language Winter, 3(3-0) GRM 203 or LING 201. Survey of the development of Modern Standard German and its relationship to other Indo-European and Germanic languages.</td>
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</tbody>
</table>
Descriptions — Linguistics and Germanic, Slavic, Asian and African Languages

Courses

437. The Contemporary German Scene
Spring. 3(3-0) GRM 337 or GRM 353 or approval of department.
The literary, artistic, intellectual, social, religious, economic, and political scene in present-day Germany with a study of its development from the recent past.

450. Special Topics in German Literature
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. GRM 337 or GRM 353 or approval of department. Genre, theme, problem, or critical topic.

451. Studies in German Literature Before 1700
Fall of odd-numbered years. 3(3-0) GRM 337 or CRM 353 or approval of department.
Early periods of German literature including Old High German, Middle High German (minnesang, the courtly epic, mysticism), the Reformation, and the baroque.

452. The Age of Goethe
Winter of even-numbered years. 3(3-0) GRM 337 or GRM 353 or approval of department.
Development of eighteenth century literature; major works of Goethe and Schiller.

453. Romanticism and Realism
Fall of even-numbered years. 3(3-0) GRM 337 or GRM 353 or approval of department.
Representative writers and texts of the two periods, Romanticism and Realism, 1795-1880. The study of literary structures, their interaction with changing society, and their impact on our time.

454. Naturalism and Early 20th Century Literature
Winter of odd-numbered years. 3(3-0) GRM 337 or GRM 353 or approval of department.
Reading and interpretation of representative works of nineteenth and twentieth century authors, naturalism and expressionism. Methods and language of literary criticism.

455. Contemporary German Literature
Spring of even-numbered years. 3(3-0) GRM 337 or GRM 353 or approval of department.
Representative German novels, dramas and poetry from 1945 to the present with emphasis on such authors as Durrenmatt, Frisch, Handke, Boll, Grass, Lexy, Muller, Hacke, Bobowski and Wolff.

456. Major Authors in German Literature
Spring of odd-numbered years. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. GRM 337 or GRM 353 and approval of department.
The life and literary contributions of a selected German author such as Goethe, Schiller, Mann, Kafka, Frisch, Wolff.

499. Special Projects
Fall, Winter, Spring. 1 to 3 credits. May reenroll for a maximum of 18 credits. Approval of department. Work in areas outside regular course offerings.

801. Introduction to Graduate Study
Fall of odd-numbered years. 3(3-0) A pro-seminar on the terminology and methods of literary criticism, and the bibliographical aids for literary and pedagogical research.

810. Topics in the Theory and Practice of Teaching German
Fall, Winter, Spring. 2(2-2) May reenroll for a maximum of 9 credits. German graduate students and senior majors/minors. Theory and practice of teaching university-level German language, literature and culture, including teaching methods, developments in second language acquisition, contrastive and error analysis, descriptive German grammar and materials development.

851. Studies in Germanic Linguistics and Philology
Spring. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Linguistic analysis of the older Germanic dialects; reading and analysis of selected texts. Topics selected from Old High German and Old Saxon, Goethe and Comparative Germanic Grammar, Old Norse.

852. Studies in German Literature to 1700
Winter. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Selected topics such as mysticism, genres such as medieval epic or minnesang, authors, and periods such as the Reformation or Baroque.

853. Studies in 18th Century and Classical German Literature
Spring. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Topics, genres, authors such as Lessing, Schiller, and Goethe, and periods, such as early eighteenth century, Sturm und Drang, and Classical literature.

854. Studies in 19th Century German Literature
Winter. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Topics, genres such as the novelle, authors such as Schlegel, Hoffmann, Tieck, Heine, Stifter, Keller, Storm, and Fontane, and periods such as Romanticism and Realism.

855. Studies in 20th Century German Literature
Fall. 3(0) May reenroll for a maximum of 9 credits if different topics are taken. Topics such as East German literature and Brechtian Theatre, genres, authors and periods such as Naturalism, Expressionism, Existentialism, Postwar literature.

856. Studies in German Culture and Civilization
Fall. 3(0) May reenroll for a maximum of 9 credits if different topics are taken. Selected periods, movements, and regions, focusing on the dissemination of knowledge, the development of ideologies and the determination of values in German society.

860. Graduate Reading Course
Fall, Winter, Spring. Summer. 1 to 5 credits. May reenroll for a maximum of 15 credits. Approval of department. Supervised reading course for investigation of special fields.

899. Master's Thesis Research
Fall, Winter, Spring. Variable credit. Approval of department.

981. Seminar
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 18 credits. A particular writer, a major work, or a limited theme is chosen for intensive analysis.

999. Doctoral Dissertation Research
Fall, Winter, Spring. Summer. Variable credit. Approval of department.

Hebrew

101. Elementary Hebrew
Fall. 4(4-1) Interdepartmental with the Department of Religious Studies. Introduction to the Hebrew language, with pronunciation and conversation practice, reading and writing, and basic grammatical analysis of biblical and modern Hebrew.

102. Elementary Hebrew
Winter. 4(4-1) HEB 101. Interdepartmental with the Department of Religious Studies.

103. Elementary Hebrew
Spring. 4(4-1) HEB 102. Interdepartmental with the Department of Religious Studies.

201. Intermediate Hebrew
Fall of odd-numbered years. 4(4-1) HEB 103. Interdepartmental with the Department of Religious Studies. Systematic review of grammar, oral practice and reading of modern pointed and unpointed texts. Root-finding skills and dictionary exercises.

202. Intermediate Hebrew
Winter of even-numbered years. 4(4-1) HEB 201. Interdepartmental with the Department of Religious Studies.

203. Intermediate Hebrew
Spring of even-numbered years. 4(4-1) HEB 202. Interdepartmental with the Department of Religious Studies.

Japanese

101. Elementary Japanese (JAP 101.) Fall. 4(4-1) Spoken and written Japanese; emphasis on conversation and easy reading.


103. Elementary Japanese (JAP 103.) Spring. 4(4-1) JPN 102.

201. Intermediate Japanese (JAP 201.) Fall. 5(5-0) JPN 103.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Japanese-speaking world. Further development of language skills.
Linguistics and Germanic, Slavic, Asian and African Languages — Descriptions of Courses

202. Intermediate Japanese
(JAP 202) Winter. 3(3-0) JPN 201.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Japanese-speaking world. Further development of language skills.

203. Intermediate Japanese
(JAP 203) Spring. 3(3-0) JPN 202.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Japanese-speaking world. Further development of language skills.

221. Second-Year Composition
(JAP 221) Fall. 2(2-0) JPN 103.
Review grammar and composition to supplement JPN 201.
Approved through Fall 1989.

222. Second-Year Composition
(JAP 222) Winter. 2(2-0) JPN 221.
Continuation of JPN 222.
Approved through Fall 1989.

223. Second-Year Composition
(JAP 223) Spring. 2(2-0) JPN 222.
Continuation of JPN 223.
Approved through Fall 1989.

401. Introduction to Linguistics
Fall, Winter, Spring, Summer. 4(4-0)
Juniors or approval of instructor. Not open to students with credit in LIN 300.
The scientific study of human languages. Basic goals, assumptions, terminology, and research results of modern theoretical and applied linguistics, with examples from a variety of languages.

402. Phonology
Fall, Winter, 3(3-0) LIN 200, LIN 401 or approval of department.
Critical reading of basic texts of modern linguistics from 1945 to 1980. Approaches to the study of sound systems, emphasizing the four basic areas of articulatory phonetics, phonetic features and components, phonological structures and meaning structures.

403. Morphology
Winter, Spring. 3(3-0) LIN 402 or approval of department.
Investigation of the origin and development of linguistic studies from 1945 to 1980. The origin and development of linguistic studies from 1945 to 1980. The source of modern linguistic theory; methodology. Representative topics: conversational discourse strategies, motivation/attitudes toward linguistic variation, universal hypotheses and pidgins/creoles.

450. Introduction to Cognitive Science
Winter. 4(4-0) PHL 447 or PSY 300 or LIN 401 or approval of department.
Interdepartmental with the departments of Philosophy and Psychology. Administered by the Department of Philosophy.
The cognitive processing of information by animals, humans, and computers. Relevant issues in philosophy, psychology, linguistics, neuropsychology, and artificial intelligence.

471. Principles and Methods of Historical Linguistics
Winter. 3(3-0) LIN 403 or concurrently.
Types of linguistic change and the methods used by linguists to study the historical development of languages and language families.

490. Senior Research
Fall, Winter, Spring. 3(3-0)
Individual projects demonstrating ability to do independent research.

503. Foundations of Modern Linguistics
Fall of even-numbered years. 3(3-0) LIN 403.
Critical reading of basic texts of modern linguistics from 1900 to the 1950s with primary emphasis on American writers.

815. Sociolinguistics Issues
Fall. 3(3-0) May reenroll for a maximum of 9 credits. LIN 415.
Critical reading of basic texts of modern linguistics from 1900 to the 1950s with primary emphasis on American writers.

821. Phonal Analysis
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 9 credits. Approval of department.
Advanced study of phonology, generally utilizing one of the following theories: stratificational, tagmemic, transformational.

831. Grammatical Analysis
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 9 credits. Approval of department.
Advanced study of syntax and related topics, generally utilizing one of the following theories: stratificational, tagmemic, transformational.

835. Semantics of Natural Languages
Spring. 3(3-0) LIN 435 or approval of department.
Selected topics on the study of meaning in human languages. History, issues, and theories of semantics.

960. Special Projects
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 16 credits. Approval of instructor.
Supervised study, reading, and research in specialized areas of linguistics.

961. Second Language Acquisition
Spring. 3(3-0) LIN 401.
Research and general theories; universals; personal, social, structural, and other factors influencing second and foreign language acquisition/learning; comparisons with first language acquisition; methods of research.
Descriptions — Linguistics and Germanic, Slavic, Asian and African Languages

Courses

965. Contrastive Analysis
Spring, 3(3-0) LIN 403.
The essentials of contrastive analysis, with emphasis on methods of making such analysis. The usefulness of and controversies concerning contrastive analysis will also be discussed.

871. Comparative Indo-European Linguistics
Fall of odd-numbered years. 3(3-0) LIN 471.
Comparative linguistics as applied to the investigation of the development and historical relationships of the languages of the Indo-European family.

880. Seminar in Linguistics
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 18 credits in different topics. Approval of department.
Advanced critical study of current topics in linguistics such as applications to other disciplines, aspects of linguistic theory, child language acquisition, contrastive analysis, structure of particular languages.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of instructor.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of instructor.

Russian
RUS

Students who have had high school work in the foreign language in which they wish to continue the development of language skills. Placement in the appropriate course is determined by the results of this examination. University credit is not given for courses waived by performance on the placement examination.

101. Elementary Russian
Fall, Winter, Spring, Summer. 4(4-1)
Fundamentals of grammar, syntax, and pronunciation with graded readings.

102. Elementary Russian
Fall, Winter, Spring, Summer. 4(4-1) RUS 101.
Continuation of RUS 101.

103. Elementary Russian
Fall, Winter, Spring, Summer. 4(4-1) RUS 102.
Continuation of RUS 102.

201. Intermediate Russian
Fall, Winter, Spring. 4(4-0) RUS 103.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Russian-speaking world. Further development of language skills.

202. Intermediate Russian
Fall, Winter, Spring. 4(4-0) RUS 201.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Russian-speaking world. Further development of language skills.

203. Intermediate Russian
Fall, Winter, Spring. 4(4-0) RUS 202.
Reading and discussion of a broad range of cultural materials including expository and literary texts from the Russian-speaking world. Further development of language skills.

241. Masterpieces of Russian Literature in English Translation
Fall. 3(3-0) Knowledge of Russian not required.
Issues confronting the individual within a society. Selections are from the finest prose masterpieces of mid-nineteenth century, including Pushkin, Gogol, Turgenyev, early Dostoevsky.

242. Masterpieces of Russian Literature in English Translation
Winter. 3(3-0) Knowledge of Russian not required.
Issues confronting people and their perception of God. Selections are from the finest prose masterpieces of late nineteenth century, including Dostoevsky, Tolstoy, Chekhov.

243. Masterpieces of Russian Literature in English Translation
Spring. 3(3-0) Knowledge of Russian not required.
Issues of conscience and courage in the twentieth century. Selections are from the finest prose masterpieces of post-revolutionary twentieth century, including Sholokhov, Bulgakov, Solzhenitsyn.

299. Special Projects
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. Approval of department.
Work in areas outside regular course offerings.

301. Introduction to Russian Literature
Fall. 3(3-0) RUS 203 or approval of department.
Selections from representative works of major Russian authors, with concentration on the nineteenth century. Familiarization with essential Russian literary terminology.

302. Introduction to Russian Literature
Winter. 3(3-0) RUS 301.
Continuation of RUS 301.

303. Introduction to Russian Literature
Spring. 3(3-0) RUS 302.
Continuation of RUS 302.

321. Advanced Composition and Conversation
Fall. 3(3-0) RUS 203.
Review of finer points of grammar. Oral reports, tape recordings, intensive class discussion. Written exercises, translations into Russian, compositions.

322. Advanced Composition and Conversation
Winter. 3(3-0) RUS 321.
Continuation of RUS 321.

323. Advanced Composition and Conversation
Spring. 3(3-0) RUS 322.
Continuation of RUS 322.

325. Russian Civilization and Culture
Fall. 3(3-0) RUS 203.
Cultural heritage of the Russian people. Readings on history, geography, the arts, religion, ideologies.

326. Russian Civilization and Culture
Winter. 3(3-0) RUS 303.
Continuation of RUS 325.
801. Slavic Bibliography and Research Methods
Fall of odd-numbered years. 3(3-0).
This course is open to students with a major in Russian or another Slavic language.

817. Nineteenth Century Russian Prose I
Fall of odd-numbered years. 3(3-0).
Frantsovich and Chekhov's search for a modern literary expression.

825. Introduction to Old Church Slavic
Fall of even-numbered years. 3(3-0).
Basic knowledge of Russian or another Slavic language.

828. Russian Drama Before 1859
Winter of odd-numbered years. 3(3-0).
Origin and development of Russian drama.

832. Nineteenth Century Russian Poetry
Winter of even-numbered years. 3(3-0).
Trends and styles in 19th century Russian poetry.

856. Twentieth Century Russian Prose I
Winter of even-numbered years. 3(3-0).
Modernist trends in Russian prose before 1917.

860. Graduate Reading Course
Fall, Winter, Spring. 1 to 5 credits.
May reenroll for a maximum of 18 credits.

899. Master's Thesis Research
Fall, Winter, Spring. Variable credit.
Approval of department.

981. Seminar in Slavic Studies
Fall, Winter, Spring. 3(3-0).
May reenroll for a maximum of 18 credits.
A particular writer, a major work, or a limited theme is chosen for intensive analysis.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit.
Approval of department.

LYMAN BRIGGS SCHOOL — DESCRIPTIONS OF COURSES

111. College Algebra
Fall. 5(5-0). Placement Test or approval of school. Not open to students with credit in MTH 100, MTH 105, or MTH 110.

112. Calculus I
Fall, Winter, Spring. 5(5-0). LBS 111 or MTH 109; LBS 124 concurrently. Not open to students with credit in MTH 112.

113. Calculus II
Fall, Winter, Spring. 5(5-0). LBS 112 and LBS 124. Not open to students with credit in MTH 115.

124. APL-Computer Programming for Scientists
Fall, Winter, Spring. 3(3-0) LBS 112 or concurrently. Interdepartmental Science and Department of Computer Science.

131. Science and Technology Studies: Writing I
Fall, Winter, Spring. 4(4-0).
Instruction and practice in expository writing. Paper and report topics on science, technology, and human values in Western civilization.

140. Biology I
Fall, Winter, Spring. 4(3-3). Not open to students with credit in B S 212.

141. Biology II
Winter, Spring, 4(3-3). LBS 140; not open to students with credit in B S 210.

142. Biology IA
Spring. 1 to 2 credits. May reenroll for a maximum of 4 credits. LBS 140.

160. Physics—Elementary Concepts
Winter. 3(3-0). LBS 161 concurrently. Elementary concepts of mechanics, electromagnetism, and optics.

161. Introduction to Chemistry and Physics I
Fall. 3(4-0) MTH 109 or MTH 105; LBS 113 concurrently. LBS 111 or concurrently or approval of instructor.

162. Introduction to Chemistry and Physics II
Winter. 3(4-0) LBS 161; LBS 162L or concurrently or approval of instructor.

162L. Introductory Physics Laboratory
Winter. 1(0-3). LBS 162 or concurrently or approval of instructor.

163. Introduction to Chemistry and Physics III
Spring. 3(4-0) LBS 162; LBS 163L or concurrently or approval of instructor.

163L. Introductory Chemistry Laboratory
Spring. 1(0-3). LBS 163 or concurrently or approval of instructor.

216. Calculus III
Fall, Spring. 5(5-0). LBS 113.

217. Calculus IV
Fall, Winter, Spring. 5(5-0). LBS 216. Credit may not be earned in both LBS 217 and MTH 310.

232. Science and Technology Studies: Writing II
Fall, Winter, Spring. 4(4-0) LBS 131; sophomores.

A writing course emphasizing investigative expository papers, Paper and report topics drawn from readings in the history and philosophy of science and technology, and other areas of science technology studies.