958. Seminar in Collective Bargaining and Trade Union Behavior
Spring. 4(4-0). May reconvall for a maximum of 8 credits if a different area is taken. LIR 859.
Critical study of selected contemporary areas and issues in collective bargaining.

LANDSCAPE ARCHITECTURE
See Geography.

LARGE ANIMAL CLINICAL SCIENCES LCS

(Name changed effective July 1, 1982. Formerly the Department of Large Animal Surgery and Medicine.)

College of Veterinary Medicine

412. Livestock Hygiene and Disease Control
(LSM 412.) Spring. 3(3-0) Junior; Agriculture majors.
Fundamentals of health and disease in animals, relation of infections and parasitic diseases of animals to human health, disease prevention and role of veterinarian in preventive medicine.

621. Integrative Clinical Problems
(LSM 621.) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program or approval of department.
Comprehensive problem-solving explorations of selected clinical diseases, either systems or species oriented, in large animals.

642. Special Problems-Research
(LSM 642.) Fall, Winter, Spring, Summer. 2 to 4 credits. May reconvall for a maximum of 8 credits. Completion of 9 terms of professional program or approval of department.
Research related to a large animal specialty.

644. Theriogenology Clerkship
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.
Provide hands-on clinical experience with diagnostic methods utilized in large animal reproduction.

650. Equine Medicine and Surgery Clerkship
(LSM 650.) Fall, Winter, Spring, Summer. 6 credits. Completion of 9 terms of professional program, approval of department.

651. Equine Musculoskeletal Diseases
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program or approval of department.
Techniques and procedures used for the diagnosis and management of a variety of equine musculoskeletal diseases utilizing hospitalized and field cases.

654. Advanced Equine Medicine and Surgery
(LSM 654.) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, LCS 650 or approval of department.
In-depth, supervised equine medicine and surgery.

656. Large Animal Anesthesiology Clerkship
(LSM 656.) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.
Concepts and supervised practice in large animal anesthesiology.

660. Field Service/Trade Animal Clerkship
(LSM 660.) Fall, Winter, Spring, Summer. 9 credits. Completion of 9 terms of professional program, approval of department.
Management of both individual and herd animal disease problems in both a hospital and on-farm environment. Skills in theriogenology. Introduction to principles of herd health management and clinical epidemiology.

662. Introduction to Herd Health Clerkship
(LSM 662.) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program or approval of department.
Concepts and supervised practice in herd health programs. Emphasis on developing programs for food animal species and equine species.

664. Dairy Herd Health Clerkship
(LSM 664.) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, LCS 660, approval of department.
Dairy farm and herd health management. Record keeping, general management, housing, nutrition, and mastitis control will be emphasized.

666. Equine Herd Health Clerkship
(LSM 666.) Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, LCS 660, 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. LCS 660, completion of 9 terms of professional program, approval of department.
Swine diseases and related production problems encountered in swine herd health programs.

672. Advanced Food Animal Clerkship
(LSM 672.) Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, LCS 660, approval of department.
Advanced, supervised food animal surgery and medicine.

674. Preceptorial Clerkship
(LSM 674.) 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.

809. Problems in Large Animal Surgery
(LSM 809.) Fall, Winter, Spring, Summer. 2 to 4 credits. May reconvall 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
(LSM 811.) Fall, Winter, Spring, Summer. 2 to 4 credits. May reconvall 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
(LSM 813.) Fall, Winter, Spring, Summer. 1 credit.

825. Fundamental Biomedical Experimental Techniques
(LSM 825.) 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 in domestic animals with emphasis on clinical theriogenology.

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

921. Pathology of Nutritional and Metabolic Diseases
(HNF 921., LSM 921.) Spring of odd-numbered years. 4(4-0) ANT 483, ANS 525, BCH 432, HNF 462 recommended. Interdepartmental with Human Nutrition and Foods.
Development, pathophysiology and morphologic pathologic 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.

LATIN
See Romance and Classical Languages.

LINGUISTICS AND GERMANIC, SLAVIC, ASIAN AND AFRICAN LANGUAGES

College of Arts and Letters
Courses in Chinese and Japanese on the 200 level or higher are normally conducted in the language.
Descriptions — Linguistics and Germanic, Slavic, Asian and African Languages of Courses

Linguistics and Oriental and African Language Courses  LOA

299. Special Projects Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Approval of department. Work in areas outside regular course offerings.

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, but translated into English by 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. Genres 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, style, or type. Typical examples: The Quest, Literature of Beowulf, Satire. Literary examples will be selected from several national literatures.

499. Special Projects Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 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, Rendille, Swahili, Yoruba. These and other African languages are taught upon sufficient demand and availability of instructors.


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.

400H. Honors Work Fall, Winter, Spring. 1 to 6 credits. May reenroll for a maximum of 15 credits. Approval of department.

415. Critical Issues in Contemporary Africa (MTC) Fall, Winter, 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 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.

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.

830. African Research (IDC 838) Fall, Winter, Spring. 2 to 4 credits. May reenroll for a maximum of 8 credits. Graduate standing, the 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  ARB

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


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  CHS

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


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

200H. Honors Work Fall, Winter, Spring. 1 to 6 credits. May reenroll for a maximum of 16 credits. Approval of department.

201. Second-Year Chinese Fall. 3(3-0) CHS 103. 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.

221. Second-Year Conversation and Composition Fall. 2(2-0) CHS 103. Conversation and composition at the intermediate level to supplement CHS 201.

222. Second-Year Conversation and Composition Winter. 2(2-0) CHS 221. Continuation of CHS 221.
223. Second-Year Conversation and Composition  
Spring, 3(3-0) CHS 222. 
Continuation of CHS 222.

250. Chinese Calligraphy  
Spring, 2(2-0) One year in Chinese language or approval of department. 
The essential characteristics of and fundamental skills involved in writing Chinese characters, 
from the point of view of practical use.

301. Readings in Modern Chinese Literature  
Fall, 3(3-0) CHS 203. 
Selected short stories from authors of the twentieth century.

302. Readings in Modern Chinese Literature  
Winter, 3(3-0) CHS 301. 
Selected essays from authors of the twentieth century.

303. Readings in Classical Chinese Literature  
Spring, 3(3-0) CHS 302. 
Selections from the writings of the important philosophers, historians and poets.

321. Conversation and Composition  
Fall, Winter, Spring, 3(3-0) May reenroll for a maximum of 9 credits. CHS 203. 
Directed topical conversation and practice in composition.

400H. Honors Work  
Fall, Winter, Spring, 1 to 10 credits. 
May reenroll for a maximum of 18 credits. 
Approval of department.

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

431. Chinese Poetry  
Fall, 3(3-0) Readings in Chinese literature 
Rise and development of Chinese poetry with particular attention to poetry of the Tang Dynasty.

German and Russian Courses  

German 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.

204. Intensive Second Year German  
Spring, 10(10-0) GRM 202. 
Intensive second year, combining in one term the work of GRM 201, GRM 202, GRM 203.

241. German Literature in English Translation (A)  
Fall, 3(3-0) Knowledge of German not required. Not applicable to major requirements. 
Selections from narrative prose, drama, and lyric poetry chosen to encourage and develop an appreciation of German literature.

242. German Literature in English Translation (A)  
Winter, 3(3-0) Knowledge of German not required. Not applicable to major requirements. 
Continuation of GRM 241.

243. German Literature in English Translation (A)  
Spring, 3(3-0) Knowledge of German not required. Not applicable to major requirements. 
Continuation of GRM 242.

299. Special Projects  
Fall, Winter, Spring, 1 to 12 credits. 
Approval of department. 
Work in areas outside regular course offerings.

321. German Composition and Conversation  
Fall, Winter, Spring, 3(3-0) GRM 303. 
Essential and difficult points of grammar reviewed. Written and oral reports; active participation in class discussion. Designed especially for students who plan to teach German.

322. German Composition and Conversation  
Winter, 3(3-0) GRM 321. 
Continuation of GRM 321.

323. German Composition and Conversation  
Spring, 3(3-0) GRM 322. 
Continuation of GRM 322.

331. German in International Business Communication  
Fall, 3(3-0) GRM 303. 
Thorough grammar review based upon business vocabulary. German business communication formats and procedures: letter, memoranda, minutes, telephone, telex, resume, job description and application.

332. German in International Business Communication II  
Winter, 3(3-0) GRM 331 or approval of department. 
Continuation of German 331 - the world of German economics and business. Lecture and discussion in German covering business types, unions, import-export, banking system, foreign workers, multinational organizations, etc.

333. German in International Business Communication III  
Spring, 3(3-0) GRM 332 or approval of department. 
Continuation of German 332 - the world of German economics and business. Lecture and discussion in German, covering German international policy, German-American corporate investment, corporations, communication problems, German business press.
336. Introduction to German Civilization and Culture
Winter. 3(3-0) GRM 203 or approval of department.
The cultural heritage of the German peoples. Readings and discussions in German based on selected nonliterary texts from 1750 to the present.

337. Contemporary German Civilization and Culture
(327.) Spring. 3(3-0) GRM 203 or approval of department.
The cultural heritage of the German peoples. Readings and discussions in German based upon selected nonliterary texts since World War II.

340. German Film
Spring. 3(3-2) One of the following: GRM 205, 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.

351. Introduction to German Literature
Fall. 3(3-0) GRM 261 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.

352. Introduction to German Literature
Winter. 3(3-0) GRM 203 or approval of department. Not open to students with credit in GRM 201, GRM 202. 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.

353. Introduction to German Literature
(303.) Spring. 3(3-0) GRM 203 or approval of department. Reading and interpretation of representative works of twentieth century authors. Methods and language of literary criticism. Study of form and expression in major literary works.

410. German Reading Skills
Winter, Summer. 3(5-0) GRM 101 or graduate students or approval of department. Not open to undergraduates with credit in GRM 103 or higher. Designed for those in science 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.

411. German Reading Skills
Spring, Summer. 3(5-0) GRM 103 or GRM 410 and approval of department. Reading and translation of works in the student’s field of interest. Completion of GRM 410 and GRM 411 with 3.0 or better will satisfy the Ph.D. reading requirement in most departments.

421. Advanced Composition and Conversation
Fall. 3(3-0) GRM 333 or GRM 333. Thorough grammar review. Oral reports and discussion of cultural topics. Written papers with critiques.

425. German in International Business Communication IV
Winter. 3(3-0) GRM 333. Continuation of GRM 335. The world of German economics and business. Lecture and discussion in German covering specific problems of German-American business communication arising from linguistic and cultural differences.

429. German Style
Spring. 3(3-0) GRM 421 or approval of department. Principles of German style, based on representative selections from modern German cultural history. Conducted in German.

434. Contrastive Structures of English and German
Fall. 3(3-0) Linguistic analysis of the structures of English and German. Recommended for those intending to teach German.

435. History of the German Language
Winter. 3(3-0) GRM 434 or LIN 401. Survey of the development of Modern Standard German and its relationship to other Indo-European and Germanic languages.

437. The Contemporary German Scene
(427.) 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
(441.) Fall of odd-numbered years. 3(3-0) GRM 337 or GRM 353 or approval of department. Early period 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, 1765-1880. 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, Hartke, Roll, Case, Lenz, Muller, Hacks, Bobrowski and Wolf.

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 or approval of department. The life and literary contributions of a selected German author such as Goethe, Schiller, Mann, Kafka, Frisch, Wolf.

499. Special Projects
Fall, Winter, Spring, Summer. 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 proseminar on the terminology and methods of literary criticism, and the bibliographical aids for literary and pedagogical research.

806. Teaching of the German Language
Fall. Winter, Spring. 1(1-0) May reenroll for a maximum of 3 credits. Problems of teaching German languages at the elementary and intermediate levels including such matters as textbook selection, teaching techniques and the preparation of examinations.

816. Old High German Language and Literature
Spring of even-numbered years. 3(3-0) GRM 515 or approval of department. German language from the beginnings to about 1050. Reading and analysis of selections from Tacitus, Isidore, Notker, Otfrid, Hildebrandsdotter, and other documents. Approved through Winter 1987.

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, Gothic 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, Storm 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 novel, authors such as Schielg, Hofmann, Tieck, Heine, Stifter, Keil.
   Steinar, and Fontane, and periods such as Romanticism and Realism.

855. Studies in 20th Century German Literature
   Fall. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken.
   Topics, genres 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(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. 1 to 3 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, Summer. 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. May reenroll for a maximum of 36 credits.

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.
   Continuation of HEB 101.

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

201. Intermediate Hebrew
   Fall. 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. 4(4-1) HEB 201. Interdepartmental with the Department of Religious Studies.
   Continuation of HEB 201.

203. Intermediate Hebrew
   Spring. 4(4-1) HEB 202. Interdepartmental with the Department of Religious Studies.
   Continuation of HEB 202. Primarily unpointed Hebrew texts and newspapers.

Japanese

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

102. Elementary Japanese
   Winter. 4(4-1) JAP 101.
   Continuation of JAP 101.

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

201. Second-Year Japanese
   Winter. 3(3-0) JAP 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.

202. Second-Year Japanese
   Winter. 3(3-0) JAP 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. Second-Year Japanese
   Spring. 3(3-0) JAP 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.

211. Second-Year Composition
   Fall. 3(3-0) JAP 103.
   Review grammar and composition to supplement JAP 101.

222. Second-Year Composition
   Winter. 2(2-0) JAP 221.
   Continuation of JAP 221.

223. Second-Year Composition
   Spring. 2(2-0) JAP 222.
   Continuation of JAP 222.

400H. Honors Work
   Fall, Winter, Spring. 1 to 6 credits.
   May reenroll for a maximum of 18 credits. Approval of department.

Linguistics

200. Language and Linguistics
   Fall, Winter, Spring. 3(3-0)
   Especially for students in areas other than linguistics, this course consists of an introduction to language and linguistics, emphasizing the application of linguistics to various other disciplines.

Animal Communication and Language

250. Animal Communication and Language
   Winter. 3(3-0)
   Comparison of animal systems of communication in relation to the structural design of human language; types of signals and their content compared; development of human language compared with development of communication in animals.

Introduction to Sociolinguistics (A)

250. Introduction to Sociolinguistics (A)
   Winter. 4(4-0) Not open to students with credit in LIN 415.
   The association of linguistic features and choice among linguistic varieties with socio-cultural variables. Topics: small group interactions, styles and dialects, multilingualism, code-switching, language maintenance and shift, language policy.

Introduction to Linguistics

401. Introduction to Linguistics
   Fall, Winter, Spring, Summer. 4(4-0)
   Junior or approval of department. Not open to students with credit in LIN 200.
   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.

Phonology

402. Phonology
   Fall, Winter. 3(3-0) LIN 200, LIN 401 or approval of department.
   Sounds and sound systems, emphasizing the four basic areas of articulatory phonetics, phonetic features and components, classical phonemics, and psycholinguistics in contemporary linguistic theories.

Morphology

403. Morphology
   Winter. 3(3-0) LIN 403 or approval of department.
   The previous term or approval of department.
   Structure of words, covering the identification and classification of morphemes, morphophonemics, alternation, and morphology in contemporary linguistic theories.

Syntactic Phenomena

404. Syntactic Phenomena
   Spring. 3(3-0) LIN 206 or LIN 404.
   Essential syntactic phenomena in the languages of the world. Syntactic description of phrases, clauses, and sentences, and its relation to morphological structures and meaning structures.

History of Linguistics

408. History of Linguistics
   Winter. 3(3-0) LIN 200 or LIN 401.
   The origin and development of linguistic studies from ancient India and Greece to the present. Provides a foundation for the understanding of contemporary issues in linguistics.

Child Language Acquisition

410. Child Language Acquisition
   Fall. 3(3-0) LIN 200 or LIN 401 or approval of instructor.
   Linguistic issues, perspectives, and research on the acquisition of language, in spoken and written form, by children; phonology, morphology, syntax, semantics, and linguistic universals; implications for related disciplines.

Sociolinguistics Topics

415. Sociolinguistics Topics
   Winter. 4(4-0) Juniors or approval of department. Not open to students with credit in LIN 206.
   Linguistic choices among different styles, dialects, and languages as socio-psychological symbols. Communicative competence, subjective speech evaluations, social dialects, socially motivated language change.

Linguistics and Germanic, Slavic, Asian and African Languages — Descriptions of Courses
421. Articulatory Phonetics
Fall, Spring. 3(3-0) Approval of department.
Development of phonetic skills for the learning and teaching of languages.

425. Field Methods
Fall. 3(3-0) May reenroll for a maximum of 9 credits. LIN 403 or approval of department.
Methods of working with informants in order to gather linguistic information, processing and analyzing data, writing linguistic descriptions.

431. Introduction to Transformational Grammar
Winter. 4(4-0) LIN 200, LIN 401 or approval of department.
Investigation of the origin and development of transformational theory of syntax; properties of deep structure, surface structure, and transformations; application of transformational concepts to native and foreign language learning.

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.

808. Foundations of Modern Linguistics
Fall of even-numbered years. 3(3-0) LIN 402.
Critical reading of basic texts of modern linguistics from 1900 to the 1960’s with primary emphasis on American writers.

815. Sociolinguistics Issues
Fall. 3(3-0) May reenroll for a maximum of 9 credits. LIN 415.
Concentration for each offering on issue of current sociolinguistics theory/methodology. Representative topics: convergational discourse strategies, motivation/attitudes toward linguistic variation, universal hypotheses and pidgins/creoles.

821. Phonological 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: stratiﬁcation, 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: stratiﬁcation, tagmemic, transformational.

835. Semantics of Natural Languages
Spring. 3(3-0) LIN 431 or approval of department.
Selected topics on the study of meaning in human languages. History, issues, and theories of semantics.

851. African Linguistics
Winter. 3(3-0) May reenroll for a maximum of 9 credits. LIN 401; LIN 402 or concurrently.
Investigation of linguistic issues and phenomena in one or a group of African languages.

860. 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.

861. Second Language Acquisition
Spring. 3(3-0) LIN 401.
Research and general theories; universal; personal; social, neurolinguistic, and other factors influencing second and foreign language acquisition/learning; comparisons with first language acquisition; methods of research.

865. Contrastive Analysis
Spring. 3(3-0) LIN 402.
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 applied to the investigation of the development and historical relationships of the languages of the Indo-European family.

890. Seminar in Linguistics
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 18 credits. 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. Variable credit. Approval of instructor.

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

Russian

RUS
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.

101. Elementary Russian
Fall, Winter, Spring. 4(4-1) May not receive credit for both RUS 101 and RUS 111, RUS 112.
Fundamentals of grammar, syntax, and pronunciation with graded readings. RUS 111 plus RUS 112 are the equivalent of RUS 101.

102. Elementary Russian
Fall, Winter, Spring. 4(4-1) RUS 101. May not receive credit for both RUS 102 and RUS 113, RUS 114.
Continuation of RUS 101. RUS 113 plus RUS 114 are the equivalent of RUS 102.

103. Elementary Russian
Fall, Winter, Spring, Summer. 4(4-1) RUS 102. May not receive credit for both RUS 103 and RUS 115, RUS 116.
Continuation of RUS 102. RUS 115 plus RUS 116 are the equivalent of RUS 103.

111. Elementary Russian
Fall. 2(2-1) May not receive credit for RUS 111 and RUS 112.
Fundamentals of grammar, syntax and pronunciation with graded readings. RUS 111 plus RUS 112 are the equivalent of RUS 101.

114. Elementary Russian
Fall. 2(2-1) RUS 113. May not receive credit for RUS 114 and RUS 102.
Continuation of RUS 113. RUS 113 plus RUS 114 are the equivalent of RUS 102.

115. Elementary Russian
Winter. 2(2-1) RUS 114 or RUS 102.
May not receive credit for RUS 115 and RUS 103.
Continuation of RUS 114. RUS 115 plus RUS 116 are the equivalent of RUS 103.

116. Elementary Russian
Spring. 2(2-1) RUS 115. May not receive credit for RUS 116 and RUS 103.
Continuation of RUS 115. RUS 115 plus RUS 116 are the equivalent of RUS 103.

201. Intermediate Russian
Fall, Winter, Spring. 4(4-0) RUS 102.
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 society. Selections from the finest prose masterpieces of mid-nineteenth century, including Pushkin, Gogol, Turgeniev, 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 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 from the finest prose masterpieces of post-revolutionary twentieth century, including Sholokhov, Bulgakov, Solzhenitsyn.
Lyman Briggs School — Descriptions of Courses

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.

327. Russian Civilization and Culture
Spring. 3(3-0) RUS 303. Continuation of RUS 326.

341. Alexander Solzhenitsyn and the Russian Literary Tradition in English Translation
Fall. 3(3-0) Knowledge of Russian is not required. Reading of the principal works of Alexander Solzhenitsyn with inquiry into their literary and philosophical antecedents, especially Dostoevsky and Tolstoy.

401. Russian Literature Before 1917
Fall. 3(3-0) RUS 203 or RUS 127. Major literary movements, authors, and works from the Kievan time to 1917.

402. Russian Literature Before 1917
Winter. 3(3-0) RUS 401. Continuation of RUS 401.

403. Russian Literature Before 1917
Spring. 3(3-0) RUS 402. Continuation of RUS 402.

410. Russian Reading Skills
Fall, Winter, Spring. 3(5-0) RUS 101 or graduate students or approval of department. Designed for those in scientific or other fields who wish to be able to read scholarly material. An intensive presentation of Russian grammar with emphasis on those features and techniques necessary for reading and translation.

411. Russian Reading Skills
Fall, Winter, Spring. 3(5-0) RUS 103 or RUS 410 and approval of department. Reading and translation of works in the student's field of interest. Completion of RUS 410 and RUS 411 with a 3.0 or better will satisfy the Ph.D. reading requirement in most departments.

425. Contemporary Russian Literary Language
Fall. 3(3-0) RUS 323. Description and analysis of contemporary Russian literary language. Its phonology, morphology, syntax, and pronunciation. Designed especially for future teachers of Russian.

426. Contemporary Russian Literary Language
Winter. 3(3-0) RUS 425 or approval of department. Continuation of RUS 425.

427. Contemporary Russian Literary Language
Spring. 3(3-0) RUS 426 or approval of department. Continuation of RUS 426.

499. Special Projects
Fall, Winter, Spring, Summer. 1 to 8 credits. May reenroll for a maximum of 18 credits. Approval of department. Work in areas outside regular course offerings.

801. Slavic Bibliography and Research Methods
Fall of odd-numbered years. 3(3-0) Bibliographies of Slavic literature and language. The library and the utilization of its resources. Principles of bibliographic compilation and research techniques in Russian Literature and Linguistics.

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

828. Introduction to Old Church Slavic
Fall of even-numbered years. 3(3-0) Basic knowledge of Russian or another Slavic language. Grammatical structure of the first written Slavic language accompanied by readings from the canonical Old Church Slavic texts.

836. Nineteenth Century Russian Poetry
Prose II
Winter of even-numbered years. 3(3-0) RUS 835 or approval of department. Trends and styles in 19th century Russian poetry up to Lermontov, Pushkin. Works on major poetry by Tchaikovsky, Bauman, Pushkin, Baratynsky, Yazykov, Tyutchev, Lermontov, Tolstoy, Fet, Nekrasov, and Solovyev.

851. Russian Literary Criticism, 20th Century
Winter of odd-numbered years. 3(3-0) Aestheticism, Transcendentalism and Socialist Realism.

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

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

981. Seminar in Slavic Studies
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 18 credits. Specific advanced topic, leading to major work in a limited field.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credits. May reenroll for a maximum of 36 credits.

LYMAN BRIGGS SCHOOL

LBS

College of Natural Science

Lyman Briggs School has a six-term sequence in Chemistry and Physics that may be completed to fulfill the School's requirements in Chemistry and Physics. This sequence involves Lyman Briggs School 161 through 163L and Lyman Briggs School 261 through 263L. It is a coordinated sequence that is comparable to certain courses in the Department of Chemistry and the Department of Physics. A student who plans to complete only part of the sequence must contact the faculty coordinator of either the Chemistry or the Physics portion.

111. College Algebra
Fall. 3(3-0) Placement Test or approval of school. Not open to students with credit in MTH 108, MTH 109, or MTH 111.

112. Calculus I
Fall. 5(5-0) LBS 111 or MTH 109, MTH 110, or MTH 112. Not open to students with credit in MTH 112.

113. Calculus II
Fall. 5(5-0) LBS 111 or MTH 109, MTH 110, or MTH 112. Not open to students with credit in MTH 112. Theory and applications of derivatives to polynomials, rational functions, trigonometric functions and their inverses, logarithmic and exponential functions. Definition and properties of the definite integral. Numerical approximations of definite integrals.