682. Introduction to Herd Health Clerkship
   (LMS 662.) Fall, Winter, Spring, Summer.
   4 credits. Completion of 9 terms of professional
   program. LCS 666, approval of department.
   Concepts and supervised practice in herd health
   programs. Emphasis on developing programs
   for food animal species and equine species.

684. Dairy Herd Health Clerkship
   (LMS 664.) Fall, Winter, Spring, Summer.
   4 credits. Completion of 9 terms of professional
   program. LCS 666, approval of department.
   Dairy farm and herd health management. Re­
   cord keeping, general management, housing,
   nutrition, and mastitis control will be empha­
   sized.

686. Equine Herd Health Clerkship
   (LMS 666.) Winter, Spring, Summer. 4 cre­
   dits. Completion of 9 terms of professional
   program. LCS 666, approval of department.
   Establishing and maintaining herd health pro­
   grams for equine operations. Reproduction, par­
   asite control, immunization, and diagnostic
   medicine and surgery in the field.

688. Swine Herd Health Clerkship
   Fall, Winter, Spring, Summer. 4 cre­
   dits. LCS 666, completion of 9 terms of profes­
   sional program, approval of department.
   Swine diseases and related production problems
   encountered in swine herd health programs.

670. Food Animal Clerkship I
   (LMS 670.) Fall, Winter, Spring, Summer.
   4 credits. Completion of 9 terms of profes­
   sional program. LCS 670, approval of depart­
   ment. Advanced, supervised food animal sur­
   gery and medicine.

672. Food Animal Clerkship II
   (LMS 672.) Fall, Winter, Spring, Summer.
   4 credits. Completion of 9 terms of profes­
   sional program. LCS 670, approval of depart­
   ment. Advanced, supervised food animal sur­
   gery and medicine.

674. Preceptorial Clerkship
   (LMS 674.) Fall, Winter, Spring, Summer.
   8(0-34) to 16(0-48) May reenroll for a maxi­
   mum of 18 credits. Completion of 9 terms of profes­
   sional program, approval of department.
   Students may not receive credit in both V M 610
   and LCS 674.
   Applied large animal clinical science. Students
   participate in all activities in assigned private
   practice clinics/selected central laboratory and
   hospital appointments.

809. Problems in Large Animal Surgery
   (LMS 809.) 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 prob­
   lems compatible with student's interest and abil­
   ity.

811. Problems in Large Animal Medicine
   (LMS 811.) 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 re­
   search problems compatible with student's inter­
   est and ability.

LANDSCAPE ARCHITECTURE

See Urban Planning and Landscape Archite­

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

813. Seminar
(LSM 813.) Fall, Winter, Spring. 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.

899. Master's Thesis Research
(LSM 889.) 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.

921. Pathology of Nutritional and Metabolic Diseases
(HNF 921., LSM 921.) Spring of odd-numbered years. 4(3-2) ANT 420, ANS 525, BCH 452, HNF 462 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.

LATIN
See Romance and Classical Languages.

LINGUISTICS AND GERMANIC, SLAVIC, ASIAN AND AFRICAN LANGUAGES

(Name changed September 1, 1981. Formerly the Department of Linguistics and Oriental and African Languages and the Department of German and Russian.)

College of Arts and Letters
Courses in Chinese and Japanese on the 300 level or higher are normally conducted in the language.

Linguistics and Oriental and African Language Courses

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
(SLS 360.) Fall, Winter, Spring. 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
(SLS 361.) 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
(SLS 362.) 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 Quot, Literature of Revolt, 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 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, Pidgin, Swahili, Yoruba. These and other African languages are taught upon sufficient demand and availability of instructors.

AFR 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.

AFR 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.

200H. Honors Work
Fall, Winter, Spring. 1 to 6 credits. May reenroll for a maximum of 18 credits. Approval of department.

201. African Languages—Intermediate
Fall. 4(4-1) May reenroll for AFR 201-202-203 sequence in more than one African language. AFR 102 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(4-1) May reenroll for AFR 201-202-203 sequence 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 sequence in more than one African language. AFR 202.

Continuation of AFR 202.

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

415. Critical Issues in Contemporary Africa
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
(JDC 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

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.

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

Continuation of ARB 101.

201. Intermediate Arabic
Fall. 4(4-1) ARB 103.

Continuation of ARB 102.

202. Intermediate Arabic
Winter. 4(4-1) ARB 201.

Continuation of ARB 201.

203. Intermediate Arabic
Spring. 4(4-1) ARB 202.

Continuation of ARB 202.

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

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.

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