460. Major Authors of Contemporary Spanish American Literature
Winter. 3(3-0) May re-enroll for a maximum of 12 credits. 351 and 352 or approval of department.
Spanish American literature from modernism to the present. Readings from Silva, Rojo, Ruben Dario and other modernist authors; from Azuela, Guillen, Bogos, Cortazar and other major writers of prose fiction.

4511. Honors Seminar
Fall, Winter, Spring. 4(4-0) May re-enroll for a maximum of 8 credits. One term of any 400 level course in Spanish, or approval of department.
Study of a specific author, work, theme or problem in Hispanic letters.

485. Chicano-Boricua Literature
(411.) Winter. 4(4-0) May re-enroll for a maximum of 12 credits. 351 and 352 or approval of department.
Readings and discussion in Spanish of works by Mexican-American and Puerto Rican authors. One term will focus on Chicano literature, the next on Puerto Rican.

499. Special Projects
Fall, Winter, Spring, Summer. 1 to 4 credits. Approval of department.
Work in areas outside regular course offerings.

800. Teaching Spanish in College
Fall, Winter, Spring. 0 to 3 credits. May re-enroll for a maximum of 3 credits.
Supervised teaching of college classes in Spanish.

802. Studies in Old Spanish Language and Literature
Fall of even-numbered years, Winter and Spring of odd-numbered years. 3(3-0) May re-enroll for a maximum of 9 credits.
Medieval works such as El Cid, Primero cronica general; Mafregos de aurea arma; El libro de buen amor; ballads, and lyric poetry.

803. Workshop for Teachers of Spanish
Summer. 1(1-0) to 6(6-0) May re-enroll once when the theme is different. Prim., secondary, community college teachers of Spanish or approval of department.
In-service training and enrichment for teachers of Spanish, emphasis on cultural patterns, methodology, and improvement of language and linguistic proficiency.

804. Stylistics
Fall of odd-numbered years. 3(3-0) May re-enroll for a maximum of 6 credits.
Principles of Spanish style, based upon representative selections from distinguished Spanish authors.

805. Development of the Spanish Language
Winter and Spring of even-numbered years. 3(3-0) May re-enroll for a maximum of 6 credits.
Development of Spanish language from its origin to present day in Spain and Spanish America. Phonology, morphology, dialectology.

809. Development of Hispanic Culture
Winter and Spring of odd-numbered years. 3(3-0) May re-enroll for a maximum of 6 credits.
Primarily for high school language teachers.
Deals with the cultural growth of the area with particular emphasis on literature and the other arts, their relative to the culture itself and to the language spoken. Given in Spanish.

811. Studies in Golden Age Literature
Winter. 3(3-0) May re-enroll for a maximum of 12 credits. Poetry, drama, prose of 16th and 17th century Spain.

812. Cervantes
Winter and Spring of odd-numbered years. 3(3-0) May re-enroll for a maximum of 6 credits.
Critical study of Don Quixote and the Novelas Ejemplares and other works for class discussion.

831. Studies in Eighteenth and Nineteenth Century Literature
Winter and Spring of even-numbered years. 3(3-0) May re-enroll for a maximum of 9 credits.
Literature from Post-Baroque Spain to the Generation of 1898.

842. Studies in Twentieth Century Literature
Fall, Winter. 3(3-0) May re-enroll for a maximum of 12 credits.
Literary and intellectual trends in Spain from the Generation of 1898 to the present. Consideration in different terms of prose fiction, essay, drama and poetry.

850. Studies in Spanish-American Literature before 1888 Winter and Spring of odd-numbered years. 3(3-0) May re-enroll for a maximum of 12 credits.
The most important authors and movements of the colonial period and the nineteenth century to 1888.

852. Studies in Contemporary Spanish-American Literature
Fall of odd-numbered years, Spring of even-numbered years. 3(3-0) May re-enroll for a maximum of 12 credits.
Poetry, drama, prose, fiction and essay from the modernist movement to the present.

860. Problems in Spanish Literature
Fall, Winter, Spring. 3(3-0) to 12(0-0) May re-enroll for a maximum of 12 credits. 600 and approval of department.
Advanced undergraduate training in clinical surgery under direct supervision of faculty and staff.

861. Seminar in Hispanic Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 18 credits.
A particular writer, a major work, or a limited theme is chosen for intensive analysis. The topic and the professor of the course change each term.

899. Research
Fall, Winter, Spring, Summer. Variable credits. Approval of department.

981. Seminar in Hispanic Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 18 credits.
A particular writer, a major work, or a limited theme is chosen for intensive analysis. The topic and the professor of the course change each term.

999. Research
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 36 credits.

RUSSIAN
See German and Russian.

SANITARY ENGINEERING
See Civil and Sanitary Engineering.

SMALL ANIMAL SURGERY AND MEDICINE

College of Veterinary Medicine

600. Small Animal Surgery Clerkship
Fall, Winter, Spring. 4, 8, or 16 credits. May re-enroll for a maximum of 16 credits. Satisfactory completion of term 8 in professional veterinary medicine curriculum and approval of department.
Training in clinical surgery under direct supervision of faculty and staff.

605. Special Problems in Clinical Surgery
Fall, Winter, Spring. 3(0-9) to 12(0-36) May re-enroll for a maximum of 12 credits. 600 and approval of department.
Advanced undergraduate training in clinical surgery under direct supervision of faculty and staff.

610. Small Animal Medicine Clerkship
Fall, Winter, Spring. 4, 8, or 16 credits. May re-enroll for a maximum of 16 credits. Satisfactory completion of term 8 in professional veterinary medicine curriculum and approval of department.
Training in clinical medicine under direct supervision of faculty and staff.

615. Special Problems in Clinical Medicine
Fall, Winter, Spring. 3(0-9) to 12(0-36) May re-enroll for a maximum of 12 credits. 610 and approval of department.
Advanced undergraduate training in clinical medicine under direct supervision of faculty and staff.

620. Small Animal Focal Problems
Fall, Winter, Spring. 2(0-4) to 4(0-12) May re-enroll for a maximum of 12 credits. Concurrent enrollment or previous completion of 600 or 610; and approval of department.
Case oriented problem solving through faculty-student group discussions and seminars.

625. Problems in Small Animal Surgery
Fall, Winter, Spring. Variable credit.

630. Problems in Small Animal Medicine
Fall, Winter, Spring. Variable credit.

631. Seminar
Fall, Winter, Spring. 1 credit.

632. Bone and Joint Surgery
Winter. 3(2-1) Approval of department.
Fundamentals, theory and practice covering the various conditions and surgery of bones and joints.

825. Advanced Anesthesiology
Winer. 4(2-3) Approval of department.
Principles of drug action pertaining to anesthetics will be discussed including respiratory and cardiovascular effects of inhalation and intravenous agents. Anesthetic techniques for various animal species will be presented.
Social Science (College of) — Descriptions of Courses

SOCIAL SCIENCE

SOCIAL SCIENCE (COLLEGE OF)

490. Individual Research Projects
Fall, Winter, Spring. 4 credits. May re-enroll for a maximum of 8 credits. Approval of department.
Individually supervised study and research on a topic using a multidisciplinary approach.

491H. Perspectives in the Social Sciences and Humanities
Fall, Winter, Spring, Summer. 2 to 6 credits. May re-enroll for a maximum of 12 credits if different topic is taken. Juniors, approval of Honors College, or approval of instructor. Interdepartmental with the colleges of Arts and Letters and Justin Morrill and administered by the College of Arts and Letters. An integration of subject matter and methodologies of several disciplines as they are relevant to particular topical areas.

495. Foreign Area Field Study
Fall, Winter, Spring, Summer. 3 to 15 credits. May re-enroll for a maximum of 34 credits. Juniors and 12 credits in social science. Study in a variety of foreign settings under the guidance of an advisor such as American University Field Study Centers in Rome and Singapore.

810. Introduction to Linear System Theory
Fall. 3(3-0) MTH 214. Interdepartmental with the Department of Computer Science and Systems Science and administered by Systems Science.
A first course in system theory for students from a range of disciplines. Mathematical representation of system variables, transform and state space method of analysis, introduction to control theory, applications to physical, economic and social systems.

811. System Methodology and Simulation
Winter. 3(3-0) 810. STT 441. Interdepartmental with the Department of Computer Science and Systems Science and administered by Systems Science.
Problem definition, design of abstract models for system design and control, simulation of systems described by differential and difference equations, generation of random variables, simulation of discrete object stochastic systems, simulation languages, applications to physical, economic and social systems.

813. System Project
Spring. 3(3-0) 811. Interdepartmental with the Department of Computer Science and Systems Science and administered by Systems Science.
Individual or team application of simulation methods to system design and/or management.

999. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of college.