

**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*; *Primera cronica general*; *Milagros de nuestra senora El libro de buen amor*; ballads, and lyric poetry.

**804. Stylistics**  
Fall of odd-numbered years. 3(3-0) May re-enroll for a maximum of 6 credits.  
Principles of Spanish style, based on 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 relation 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 read for class discussions.

**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. Graduate Reading**  
Fall, Winter, Spring, Summer. 1 to 5 credits. May re-enroll for a maximum of 15 credits. Approval of department.  
Supervised reading course for investigation of special fields.

**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 SSM

### College of Veterinary Medicine

**501. Introduction to Veterinary Medicine I**  
Summer. 2(2-0) Admission to professional veterinary program. Interdepartmental with Center for Laboratory Animal Resources.  
Species and breed identification, predisposition for specific diseases, basic care and feeding, restraint and handling of small domestic animals, unusual pet, and laboratory animals.

**502. Introduction to Veterinary Medicine II**  
Spring. 4(3-3) Admission to the professional veterinary program. Interdepartmental with the Department of Large Animal Surgery and Medicine.  
Anesthetic principles, agents and techniques. Basic surgical principles, including aseptic technique, hemostasis, wound healing, suturing and suturing materials. Fundamentals of radiology.

**503. Introduction to Veterinary Medicine III**  
Spring. 4(3-3) Admission to professional veterinary program. Interdepartmental with and administered by the Department of Large Animal Surgery and Medicine.  
Physical and systemic examination of the various domestic and laboratory species. Common restraint procedures, clinical skills, diagnostics and an approach to clients are included.

**504. Small Animal Clinic I**  
Fall, Winter, Spring, Summer. 3(0-10) Eighth-term or ninth-term Veterinary Medicine students.

Concepts and practices of clinical veterinary medicine. Rotation through hospital services including outpatient clinic, medicine, surgery, radiology, clinical pathology, and pharmacy.

**511. Small Animal Surgery and Medicine I**  
Fall, Spring. 8(7-3) Seventh-term Veterinary Medicine students.

Basic surgery. Laboratory and lectures with television demonstrations. Anesthesiology, basic radiology, small animal husbandry, and diseases of the upper digestive system.

**512. Small Animal Surgery and Medicine II**  
Winter, Summer. 7(6-3) 511.

Diseases of musculoskeletal, digestive and respiratory systems. Includes radiology and surgical laboratory with demonstrations.

**513. Small Animal Surgery and Medicine III**  
Fall, Spring. 7(7-0) 512.

Diseases of urogenital, endocrine, cardiovascular, hematopoietic and integumentary systems and specific infectious diseases. Includes radiographic and surgical techniques.

**604. Small Animal Clinic II**  
Fall, Winter, Spring, Summer. 12(0-36) 504.

Concepts and practices of clinical veterinary medicine. Rotation through hospital services. Diagnosis, prognosis, treatment, and prevention of disease through handling of clinic patients under direct supervision of staff veterinarians.

**614. Small Animal Surgery and Medicine IV**  
Winter, Summer. 3(3-0) Sixth-term Veterinary Medicine students.

Occurrence, etiology, symptomatology, diagnosis, treatment and prevention of diseases of nervous system, organs of special sense, physical and chemical agents and neoplasia.

**651. Clinico-Pathologic Conference**  
Fall, Winter, Spring, Summer. 0 or 1(1-0) May re-enroll for a maximum of 2 credits. Professional Veterinary Medicine students.

Clinico-pathologic conference on selected clinical cases. Students will be required to enroll each term (first nine terms) without credit and in terms ten and eleven for 1 credit each term.

**808. Problems in Small Animal Surgery**  
Fall, Winter, Spring, Summer. Variable credit.

**810. Problems in Small Animal Medicine**  
Fall, Winter, Spring, Summer. Variable credit.

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

**822. Bone and Joint Surgery**  
Winter. 3(2-4) Approval of department.  
Fundamentals, theory and practice covering the various conditions and surgery of bones and joints.

**Descriptions — Small Animal Surgery and Medicine of Courses**

**823. Special Surgery**  
 Spring. 3(1-6) May re-enroll for a maximum of 6 credits. Approval of department.  
 Surgical technique and tissue reactions following surgery in small animals.

**825. Advanced Anesthesiology**  
 Winter. 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.

**826. Cardiology**  
 Fall. 3(2-4) Approval of department.

Study recent advances in veterinary cardiology. Includes electrocardiology, congenital and acquired diseases, cardiac catheterization and surgery.

**899. Research**  
 Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 18 credits. Approval of department.  
 Research on thesis problems.

**SOCIAL SCIENCE S S  
 University College**

Students may earn credit in only one of the courses in each of the following three groups:  
 1. 201, 211, 221, 241  
 2. 202, 212, 222, 242  
 3. 203, 213, 223, 243

**100. Personal Decision Making and Public Policy**  
 Spring. 4(4-0)

Public policy and decision-making processes. Effects of policy on the quality of life. Development of descriptive and prescriptive social science skills. Improving the policy-making process.

**201. Americans and Their Values**  
 (231A.) Fall, Winter, Spring, Summer. 4(4-0)

Processes by which individuals are socialized to the prevailing patterns of behavior by such agencies as family, school, peer groups, mass media and church. Part played by each in the development of personality.

**202. Power in America**  
 (232A.) Fall, Winter, Spring, Summer. 4(4-0) 201 preferred; or 211, 221, or 241.

Problems of regulating and controlling human behavior. Emphasis placed on major economic and political institutions involved in social control. This includes problems of human wants and needs.

**203. A Peaceful World?**  
 (233A.) Fall, Winter, Spring, Summer. 4(4-0) 202 preferred; or 212 or 222, or 242.

The international scene with the focus on problems of economic development, conflict among the nation-states and attempts at conflict control.

**211. The Emergence of Man**  
 (231B.) Fall, Winter, Spring, Summer. 4(4-0)

The bio-social evolution of man. The theories and empirical findings of the behavioral sciences are brought to bear upon the nature of man.

**212. Coping with Changing Institutions in Modern Society**  
 (232B.) Fall, Winter, Spring Summer. 4(4-0) 211 preferred; or 201, 221, or 241.

Individuals and the changing institutional framework of modern society. Emphasis on socialization enabling personality systems in different cultural settings to cope with life in the future.

**213. Casualties of Contemporary Society**  
 (233B.) Fall, Winter, Spring, Summer. 4(4-0) 212 preferred; or 202; 222, or 242.

The meaning of deviant behavior and personal disorganization and their impact on society. Selected problems examined in depth.

**IDC. The Politics of Ecology**  
 For course description, see Interdisciplinary Courses.

**221. The Changing American Metropolis: Ecology of the Urban Community**  
 (231C.) Fall, Winter, Spring, Summer. 4(4-0)

Factors and directions in urban change. Impacts on life styles and life strategies of urban groups. Challenges to traditional family, educational, and community patterns.

**222. Work and Politics in Urban America**  
 (232C.) Fall, Winter, Spring, Summer. 4(4-0) 221 preferred; or 201, 211, 241.

Changing patterns of economic and political participation. Issues of employment security and job satisfaction. Distribution of economic rewards, political power, and civil rights. Inter-meshing of economic and political activities.

**223. The World's Cities: An Urban Culture and Common Problems**  
 (233C.) Fall, Winter, Spring, Summer. 4(4-0) 222 preferred; or 202, 212, or 242.

The unity of urban life patterns and the emergence of modern-day urban problems. Cultural variations in approach to issues—comparative political, social, economic, ideological systems.

**241. Modernization: Political and Social**  
 (231D.) Fall, Winter, Spring, Summer. 4(4-0)

The nature and sources of social cohesion. Approaches to the modernization of traditional societies. Problems and alternative strategies of nation building.

**242. Modern Ideologies: Justifications of Political and Economic Power**  
 (232D.) Fall, Winter, Spring, Summer. 4(4-0) 241 preferred; or 201, 211 or 221.

Ideologies of change in the modern world—sources, appeals, problems. Issues of social justice and individual freedom.

**243. Revolutionary Change and International Conflict**  
 (233D.) Fall, Winter, Spring, Summer. 4(4-0) 242 preferred; or 202, 212, or 222.

Social tensions and revolutionary change. The causes of war: international conflict and the great powers. Strategies for peace. Man's conscience versus state policies.

**300. Supervised Individual Study**  
 Fall, Winter, Spring. 2 to 4 credits. 8 credits completed in the Social Science Department and approval of department.

Selected students requesting individual study of interdisciplinary problems will work under supervision of University College professors. Variable elective credit will be determined when the student secures instructor, adviser, and department approval.

**IDC. Modernization: India and Japan**  
 For course description, see Interdisciplinary Courses.

**IDC. Modernization: The Middle East**  
 For course description, see Interdisciplinary Courses.

**IDC. Far East: Contemporary Issues and Problems**  
 For course description, see Interdisciplinary Courses.

**IDC. Refugees, Displaced Persons, Hostages, Exiles**  
 For course description, see Interdisciplinary Courses.

**SOCIAL SCIENCE SSC  
 (COLLEGE OF)**

**210. Methods of Social Science I**  
 Fall, Winter, Spring, Summer. 4(4-0) Sophomores

Characteristics of social science theory and method. Logical and practical aspects of data collection; standard techniques of investigation in the social sciences.

**211. Methods of Social Science II**  
 Fall, Winter, Spring, Summer. 4(4-0) 210.

Principles of measurement and scaling. Types of variables. Techniques and problems of sampling. Research design. Role of explanation and of value judgments in social science.

**450H. Perspectives in Social Science**  
 (390H.) Fall, Winter, Spring. 4(4-0) Juniors, approval of Honors College. Preference given to majors in Social Science and professional schools of the College of Social Science. Seminars in selected topics in areas of knowledge represented by the social science disciplines and allied professional fields.

**470. Selected Topics in Social Science**  
 Winter, Spring. 4(4-0) May re-enroll for a maximum of 8 credits. 18 credits in Social Science.

An interdisciplinary investigation of major theoretical and applied topics in the social sciences, including computer utilization in social science research, and interdisciplinary approaches to contemporary problems. Topics will vary from term to term.

**480. Contemporary Social Problems in the United States**  
 Fall, Winter. 4(4-0) May re-enroll for a maximum of 8 credits. 18 credits in Social Science.

Interdisciplinary investigation of selected major social problems of the United States, such as urban redevelopment, environmental control, welfare reform, crime and society, the future of American society.