852. Studies in Contemporary Spanish-American Literature

Fall of odd-numbered years. Spring of even-numbered years. 3(3-0) May reenroll 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 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, S Variable credit. Approval of department. Summer.

981. Seminar in Hispanic Literature

Fall, Winter, Spring 36 reenroll for a maximum of 18 credits. 3(3-0) May

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. **Doctoral Dissertation** Research

Fall, Winter, Spring, Summer. Variable credit. May reenroll 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

Veterinary Management of Unusual Animals 500.

Spring. 2(2-0) Satisfactory completion 4 of the professional veterinary of term curriculum.

Veterinary management of laboratory animals, reptiles, birds, fish, and wild species kept as pets. Emphasis on capture, restraint and anesthesia, diagnosis and treatment of common diseases.

621. Anesthesiology Clerkship

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised anesthesiology practice.

622. General Practice Clerkship

Fall, Winter, Spring, Summer. 4 credits. May reenroll for a maximum of 8 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised general practice.

Radiology Clerkship 623.

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of denartment.

Supervised radiology practice.

624. Soft Tissue Surgery Clerkship

Fall, Winter, Spring, Summer 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised soft tissue surgery.

Problems in Anesthesiology

Fall, Winter, Spring, Summer. 4 credits. SSM 621, approval of department. Supervised anesthesiology problems.

634. Problems in Soft Tissue Surgery

Fall, Winter, Spring, Summer. 4 credits. SSM 624, approval of department. Supervised soft tissue surgery problems.

660. Cardiology/Neurology Clerkship

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised cardiology and neurology practice.

Internal Medicine Clerkship

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised internal medicine practice.

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised oncology practice.

663.

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised ophthalmology practice.

Orthopedic Surgery 664. Clerkship

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of

Supervised orthopedic surgery.

665. Zoo and Wildlife Clerkship

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised zoo animal and wildlife medicine and surgery.

667. Laboratory Animal Medicine Clerkship

Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.

Supervised laboratory animal management, medicine and surgery.

Problems in Internal 671. Medicine

Fall, Winter, Spring, Summer. 4 credits. SSM 661, approval of department.
Supervised internal medicine problems.

673. Problems in Clinical Ophthalmology

Fall, Winter, Spring, Summer. 4 credits. SSM 663, approval of department. Supervised ophthalomolgy problems.

674. Problems in Orthopedic Surgery

Fall, Winter, Spring, Summer. 4 credits. SSM 664, approval of department. Supervised orthopedic surgery problems.

808. Problems in Small Animal Surgery

Winter, Spring, Fall, Summer. Variable credit.

810. Problems in Small Animal Medicine

Fall. Winter, Spring, Summer. Variable credit.

813. Seminar

Fall, Winter, Spring. 1 credit.

825. Advanced Anethesiology

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.

Master's Thesis Research

Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 18 credits. Approval of department. Research on thesis problems.

College of Social Science

SOCIAL SCIENCE

the University's General Education requirement in the Social and Behavioral Sciences general knowledge area, refer to Undergraduate Education in the Academic Programs section of the University catalog.

No more than one course may be taken in each of

the following groups: 1. 201, 211, 221, 241

2, 202, 212, 222, 242

3. 203, 213, 223, 243

Americans and Their Values 201.

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.

SS

Courses

202. Power in America (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 201, or SS 211, or SS 221, or SS 241 recommended; SS 201 preferred.

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. American and World Problems (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 202, SS 212, SS 222 or SS 242 recommended; SS 202 preferred.

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

The Emergence of Man (S) 211.

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 (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 201, SS 211, SS 221 or SS 241 recommended; SS 211 preferred.

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

213. Casualties of Contemporary Society (S)

Fall, Winter, Spring, Summer, 4(4-0) SS 202, SS 212, SS 222 or SS 242 recommended; SS 212 preferred.

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

The Individual and 221. Metropolitan Society (S)

Fall, Winter, Spring, Summer. 4(4-0) Factors and directions in metropolitan change. Impacts on life styles and life strategies of individuals and groups. Challenges to traditional family, educational and community patterns.

Economics, Politics and the 222. Individual in the Metropolis (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 201, SS 211, SS 221, SS 241, recommended; SS 221 preferred.

Patterns of economic and political participation: The impact on the individual. Employment security and job satisfaction, economic rewards, political power and civil rights. Intermeshing of economic and political activities.

223. World Urbanization: Cultures and Common Issues (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 202, SS 212, SS 222 or SS 242 recommended; SS 222 preferred.

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

241. Cultures in Crisis (S)

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. Freedom and Justice (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 201, SS 211, SS 221 or SS 241 recommended; SS 241 preferred. Ideologies of change in the modern world—sources, appeals, problems. Issues of social justice and individual freedom.

243. War and Morality (S)

Fall, Winter, Spring, Summer. 4(4-0) SS 202, SS 212, SS 222 or SS 242 recommended; SS 242 preferred.

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

292. Selected Topics

(U C 292.) Fall, Winter, Spring. 3 to 5 credits. May reenroll for a maximum of 8 credits if different topic is taken.

Interdisciplinary study of topics in the social sciences.

300. Supervised Individual Study

Fall, Winter, Spring, Summer. 2 to 4 credits. 8 credits completed in general education social science; 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: The Middle

For description, course see Interdisiplinary Courses.

IDC. Refugees, Displaced Persons, Hostages, Exiles

For course description, see Interdisciplinary Courses.

495. Foreign Area Field Study

Fall, Winter, Spring, Summer. 3 to 15 credits. May reenroll for a maximum of 24 credits. Juniors and 12 credits in social science. Study in a variety of foreign settings under the guidance of an adviser, such as American University Field Study Centers in Rome and

810. Introduction to Linear System Theory

Fall. 3(3-0) Interdepartmental with 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) SYS 810, STT 441. Interdepartmental with 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.

System Project 813.

Spring, 3(1-6) SYS 811. Interdepartmental with and administered by Systems Science.

Individual or team application of simulation methods to system design and/or management.

999. **Doctoral Dissertation** Research

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

SOCIAL WORK

SW

SSC

SOCIAL SCIENCE (COLLEGE OF)

Perspectives in the Social Sciences and Humanities

Fall, Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 12 credits if different topic is taken. Juniors, approval of Honors College, or approval of instructor. Interdepartmental with Justin Morrill Inter-College Programs and the College of Arts and Letters. Administered by the College of Arts and Letters.

An integration of subject matter methodologies of several disciplines as they are relevant to particular topic areas.

492. Integrative Studies

(U C 492.) Fall, Winter, Spring, Summer. 3 to 5 credits. May reenroll for a maximum of 10 credits if different topics are

Topics which require an integration within or among the social sciences.

College of Social Science

205. Contemporary Social Work

Fall, Winter, Spring. 3(3-0)

Role of the social worker in relation to social issues and human needs; social service programs, structures and functions of public and voluntary agencies in a changing society.

228. Marriage

Fall, Winter, Spring. 4(4-0) Students may not receive credit in both S W 228 and FCS 145.

Examination of marriage and the family, from a social work point of view. Consideration of such areas of adjustment as emotional, physical, social, financial, religious and legal.

Child Welfare

Winter, Spring. 3(3-0) Juniors.

Child welfare movement and contemporary children's agencies and their services. Programs for improving home and for substitute care, safeguarding health, employment protection, delinquency prevention, and other needs of children and youth.