

**Descriptions — Small Animal Clinical Sciences  
of  
Courses**

**SMALL ANIMAL CLINICAL  
SCIENCES SCS**

**College of Veterinary Medicine**

**500. Veterinary Management of Unusual Animals**  
Spring. 2(2-0) Satisfactory completion of term 8 of the professional veterinary 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 9, approval of department.  
Supervised anesthesiology practice.

**622. General Medicine/ICU Clerkship**  
Fall, Winter, Spring, Summer. 6 credits. Completion of 9 terms of professional program, approval of department.  
Diagnostic and therapeutic plans and procedures for pet animal patients presented by appointment and as emergencies.

**623. Radiology Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.  
Supervised radiology practice.

**624. Small Animal Surgery Clerkship**  
Fall, Winter, Spring, Summer. 6 credits. Completion of 9 terms of professional program, approval of department.  
Soft tissue and orthopedic surgery in companion animals.

**631. Problems in Anesthesiology**  
Fall, Winter, Spring, Summer. 3 credits. SCS 621. Completion of 9 terms of professional program, approval of department.  
Anesthesiology problems.

**634. Problems in Soft Tissue Surgery**  
Fall, Winter, Spring, Summer. 3 credits. SCS 624. Completion of 9 terms of professional program, approval of department.  
Soft tissue surgery problems.

**660. Cardiology Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of the professional program, approval of department.  
Cardiology practice.

**661. Internal Medicine Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.  
Supervised internal medicine practice.

**662. Oncology Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.  
Oncology practice.

**663. Ophthalmology Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.  
Ophthalmology practice.

**665. Zoo and Wildlife Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.  
Zoo animal and wildlife medicine and surgery.

**666. Neurology Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.  
Neurology practice.

**671. Problems in Internal Medicine**  
Fall, Winter, Spring, Summer. 3 credits. SCS 661. Completion of 9 terms of professional program, approval of department.  
Internal medicine problems.

**673. Problems in Clinical Ophthalmology**  
Fall, Winter, Spring, Summer. 3 credits. SCS 663. Completion of 9 terms of professional program, approval of department.  
Ophthalmology problems.

**674. Problems in Orthopedic Surgery**  
Fall, Winter, Spring, Summer. 3 credits. SCS 624. Completion of 9 terms of professional program, approval of department.  
Orthopedic surgery problems.

**680. Special Problems Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.  
Clinical training utilizing problem cases.

**681. Dermatology Clerkship**  
Fall, Winter, Spring, Summer. 3 credits. Completion of 9 terms of professional program, approval of department.  
Dermatology practice.

**808. Problems in Small Animal Surgery**  
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 20 credits.

**810. Problems in Small Animal Medicine**  
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 20 credits.

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

**825. Advanced Anesthesiology**  
Winter. 3(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**  
Every third Fall beginning 1988. 4 credits. Approval of department.

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

**899. 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.

**SOCIAL SCIENCE S S**

**College of Social Science**

**201. Americans and Their Values (S)**  
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 (S)**  
Fall, Winter, Spring, Summer. 4(4-0) S S 201, or S S 211, or S S 221, or S S 241 recommended; S S 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. America and World Problems (S)**  
Fall, Winter, Spring, Summer. 4(4-0) S S 202, S S 212, S S 222 or S S 242 recommended; S S 202 preferred.

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

**211. Becoming Human: The Social Scientific Perspective (S)**  
Fall, Winter, Spring, Summer. 4(4-0)

The biosocial determinants of human behavior. Theories and empirical findings of the behavioral sciences are used to develop an understanding of the human experience.

**212. Coping with Changing Institutions in Modern Society (S)**

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

**213. Casualties of Contemporary Society (S)**

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

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

**221. The Individual and 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.

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

Fall, Winter, Spring, Summer. 4(4-0) S S 201, S S 211, S S 221, S S 241, recommended; S S 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)  
S S 202, S S 212, S S 222 or S S 242 recommended; S S 222 preferred.

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. Cultures in Crises (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)  
S S 201, S S 211, S S 221 or S S 241 recommended; S S 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)  
S S 202, S S 212, S S 222 or S S 242 recommended; S S 242 preferred.

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

**251. Human Perspectives on Urbanization (S)**

(U D 200.) Fall. 4(4-0)

The changing role of the city in contemporary urban societies. The human problems in urban centers as well as strategies for solving those problems.

**252. Historical Roots of Racism and Ethnocentrism (S)**

(U D 201.) Winter. 4(4-0)

Theories of racism and ethnocentrism, emphasizing a problem-solving approach in applying these theories to pluralism as it relates to Blacks, Spanish-Speaking and Indian Americans.

**253. Minorities in American Cities (S)**

(U D 202.) Spring. 4(4-0) S S 251, S S

252.

Changing socio-economic and political conditions of minority groups in American cities associated with urbanization. Special emphasis will be given to Blacks, Spanish-Speaking, and Indian Americans.

**292. Selected Topics**

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.

**SOCIAL SCIENCE (COLLEGE OF) SSC**

**201. Introduction to Women's Studies: Women's Consciousness**

(IDC 233.) Fall, Winter, Spring. 4(4-0) Interdepartmental with the College of Arts and Letters and Women's Studies Program. Administered by Women's Studies Program.

Development of women's consciousness in various historical, cross-cultural and scientific contexts. Contexts basic to feminist thought are clarified. Critique of sexism in traditional scholarship.

**212. International Issues (MTC)**

Fall, Winter, Spring. 2(2-0) or 3(3-0)

May reenroll for a maximum of 5 credits if different topics are taken. Interdepartmental with James Madison College.

Contemporary international political, economic, scientific, moral, legal and humanistic topics. Separate multidisciplinary topics will be offered at different times.

**300. Special Topics in Women's Studies**

Spring of even-numbered years. 3(3-0)

or 4(4-0) May reenroll for a maximum of 8 credits if different topic is taken. Sophomores, W S 201 or approval of instructor. Interdepartmental with the College of Arts and Letters and Women's Studies Program. Administered by the Women's Studies Program.

Special topic emphasizing women and/or gender.

**305. Women's Studies Internship**

Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 4 credits.

Six credits of women's studies courses, approval of Women's Studies Program. Interdepartmental with the College of Arts and Letters and Women's Studies Program. Administered by Women's Studies Program.

Integration of feminist knowledge through work experience in legislative, community or educational settings.

**401. Women's Studies Senior Level Seminar**

Spring. 4(4-0) Juniors; W S 201 or six credits of ATL 181, ATL 182, ATL 183. Interdepartmental with the College of Arts and Letters and Women's Studies Program. Administered by Women's Studies Program.

Synthesis of course work in women's studies. Emphasis is on individualized research projects.

**402. Feminist Theory**

Fall. 4(4-0) Nine credits in women's studies courses, approval of instructor. Interdepartmental with the College of Arts and Letters and Women's Studies Program. Administered by Women's Studies Program.

Integrative theoretical approaches to women's studies; ways of conceptualizing sex and gender; varieties of explanation of sexual inequality; feminist critiques of traditional knowledge.

**409. Independent Study in Women's Studies**

Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.

Juniors, approval of Women's Studies Program. Interdepartmental with the College of Arts and Letters and Women's Studies Program. Administered by Women's Studies Program.

Individual reading and research on women and gender.

**447. Refugees, Displaced Persons, Exiles**

Winter. 4(4-0) Juniors.

Political refugees caused by the emergence of new nations, persecution, war, tyranny. Definition, description, and analysis of refugees, history, causes, consequences. Political, legal, sociological, psychological, economic and historical problems examined.

**448. Issues in Refugee Assistance**

Spring. 4(4-0) Juniors.

Refugee problems, programs, and policies in developed and developing countries. Camps, relief, asylum, repatriation, integration, and resettlement. Problems of assistance, adjustment, politics. Roles of governments, international and voluntary agencies.

**491H. 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 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 topic areas.

**492. Integrative Studies**

Fall, Winter, Spring, Summer. 2 to 5 credits. May reenroll for a maximum of 10 credits if different topics are taken. Juniors.

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

**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 Singapore.

**498. Social Science Internship**

Fall, Winter, Spring, Summer. 3 to 14 credits.

May reenroll for a maximum of 14 credits. College of Social Science major or approval of college; juniors; one methods course, 16 credits in social science disciplines or professional schools.

Internship in the social sciences. Applying methods and concepts from the social sciences in career-related settings.

**810. Introduction to Linear System Theory**

Fall. 3(3-0) MTH 214. May not be used for graduate credit by Electrical Engineering and Systems Science majors except Operations Research/Systems Science. 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.