

**500. Veterinary Management of Unusual Animals**  
(SSM 500.) 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**  
(SSM 621.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised anesthesiology practice.

**622. General Practice Clerkship**  
(SSM 622.) Fall, Winter, Spring, Summer. 4 credits. May reenroll for a maximum of 8 credits. Satisfactory completion of term 9, approval of department.

Supervised general practice.

**623. Radiology Clerkship**  
(SSM 623.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised radiology practice.

**624. Soft Tissue Surgery Clerkship**  
(SSM 624.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised soft tissue surgery.

**631. Problems in Anesthesiology**  
(SSM 631.) Fall, Winter, Spring, Summer. 4 credits. SCS 621. Satisfactory completion of term 9, approval of department.

Supervised anesthesiology problems.

**634. Problems in Soft Tissue Surgery**  
(SSM 634.) Fall, Winter, Spring, Summer. 4 credits. SCS 624. Satisfactory completion of term 9, approval of department.

Supervised soft tissue surgery problems.

**660. Cardiology Clerkship**  
(SSM 660.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9 of the professional veterinary curriculum, approval of department.

Supervised cardiology practice.

**661. Internal Medicine Clerkship**  
(SSM 661.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised internal medicine practice.

**662. Oncology Clerkship**  
(SSM 662.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised oncology practice.

**663. Ophthalmology Clerkship**  
(SSM 663.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised ophthalmology practice.

**664. Orthopedic Surgery Clerkship**  
(SSM 664.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised orthopedic surgery.

**665. Zoo and Wildlife Clerkship**  
(SSM 665.) Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9, approval of department.

Supervised zoo animal and wildlife medicine and surgery.

**666. Neurology Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 9 of the professional veterinary curriculum, approval of department.

Supervised neurology practice.

**671. Problems in Internal Medicine**  
(SSM 671.) Fall, Winter, Spring, Summer. 4 credits. SCS 661. Satisfactory completion of term 9, approval of department.

Supervised internal medicine problems.

**673. Problems in Clinical Ophthalmology**  
(SSM 673.) Fall, Winter, Spring, Summer. 4 credits. SCS 663. Satisfactory completion of term 9, approval of department.

Supervised ophthalmology problems.

**674. Problems in Orthopedic Surgery**  
(SSM 674.) Fall, Winter, Spring, Summer. 4 credits. SCS 664. Satisfactory completion of term 9, approval of department.

Supervised orthopedic surgery problems.

**680. Special Problems Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. May reenroll for a maximum of 8 credits. Completion of term 9 of professional program; approval of department.

In-depth supervised clinical training utilizing problem cases.

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

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

**813. Seminar**  
(SSM 813.) Fall, Winter, Spring. 1 credit.

**825. Advanced Anesthesiology**  
(SSM 825.) 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**  
(SSM 826.) Fall of odd-numbered years. 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**  
(SSM 899.) 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.

## Descriptions — Social Science

of

### Courses

#### 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 recom-  
mended; 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 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)  
S S 201, S S 211, S S 221 or S S 241 recom-  
mended; 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 recom-  
mended; 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 differ-  
ent topic is taken.

Interdisciplinary study of topics in the social sci-  
ences.

#### 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 SSC (COLLEGE OF)

#### IDC. **Introduction to Women's Studies: Women's Consciousness**

For course description, see *Interdisci-  
plinary Courses*.

#### IDC. **Women's Studies Senior Level Seminar**

For course description, see *Interdisci-  
plinary Courses*.

#### 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 differ-  
ent topic is taken. Juniors, approval of Honors  
College, or approval of instructor. Interdepart-  
mental with and administered by the College of  
Arts and Letters.

An integration of subject matter and methodolo-  
gies 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 cred-  
its 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 cred-  
its. Juniors and 12 credits in social science.

Study in a variety of foreign settings under the  
guidance of an adviser, such as American Uni-  
versity Field Study Centers in Rome and Singa-  
pore.

#### 498. **Social Science Internship**

Fall, Winter, Spring, Summer. 3 to 14  
credits. May reenroll for a maximum of 14 cred-  
its. College of Social Science major or approval  
of college; juniors; one methods course, 16 cred-  
its in social science disciplines or professional  
schools.

Internship in the social sciences. Applying meth-  
ods and concepts from the social sciences in car-  
eer-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 representa-  
tion 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. In-  
terdepartmental with and administered by Sys-  
tems Science.

Problem definition, design of abstract models for  
system design and control, simulation of systems  
described by differential and difference equa-  
tions, generation of random variables, simula-  
tion of discrete object stochastic systems,  
simulation languages, applications to physical,  
economic and social systems.

#### 813. **System Project**

Spring. 3(1-6) SYS 811. Interdepart-  
mental with and administered by Systems Sci-  
ence.

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

#### 999. **Doctoral Dissertation Research**

Fall, Winter, Spring, Summer. Varia-  
ble credit. Approval of college.

## SOCIAL WORK S W

### 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, so-  
cial, financial, religious and legal.

#### 322. **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, safe-  
guarding health, employment protection, delin-  
quency prevention, and other needs of children  
and youth.

#### 400H. **Honors Work**

Fall, Winter, Spring, Summer. 1 to 16  
credits. Juniors; approval of school.

Study of a problem, phase or field of social work;  
seminar for particularly able students.