

- 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.
- 623. Radiology Clerkship**
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.
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.
- 631. 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.
- 661. 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.
- 662. Oncology Clerkship**
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.
Supervised oncology practice.
- 663. Ophthalmology Clerkship**
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.
Supervised ophthalmology practice.
- 664. Orthopedic Surgery Clerkship**
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.
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.
- 671. Problems in Internal 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 ophthalmology 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**
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.
- 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 reenroll for a maximum of 18 credits. Approval of department.
Research on thesis problems.

- 201. Americans and Their Values**
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**
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. American and World Problems**
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. The Emergence of Man**
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) S S 201, S S 211, S S 221 or S S 241 recommended; S S 211 preferred.
Factors and directions in urban change. Impacts on life styles and life strategies of urban groups. Challenges to traditional family, educational, and community patterns.
- 213. Casualties of Contemporary Society**
(233B.) 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.

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

221. The Changing American Metropolis: Ecology of the Urban Community
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. Metropolitan Perspectives: Economics, Politics and Policies
(232C.) Fall, Winter, Spring, Summer. 4(4-0) S S 201, S S 211, S S 221, S S 241, recommended; S S 221 preferred.
Changing patterns of economic and political participation. Issues of employment security and job satisfaction. Distribution of economic rewards, political power, and civil rights. Intermeshing of economic and political activities.

SOCIAL SCIENCE S S

University College

To satisfy the University General Education requirement, a student must take "one" course in each of the following groups. Additional courses may be taken for elective credit.

1. 201, 211, 221, 241
2. 202, 212, 222, 242
3. 203, 213, 223, 243

**Descriptions – Social Science
of
Courses**

223. World Urbanization: Human Consequences
(233C.) 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 Crisis
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
(232D.) 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
(233D.) 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. Man's conscience versus state policies.

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: India, Pakistan, Bangladesh
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)**

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 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 topic areas.

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.

810. Introduction to Linear System Theory

Fall. 3(3-0) MTH 214. 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.

813. System Project
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. Research
Fall, Winter, Spring, Summer. Variable 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, social, 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, safeguarding health, employment protection, delinquency 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.

417. Minorities and Women in the World of Work

Fall, Spring. 4(4-0) Senior majors or approval of department. Interdepartmental with the departments of Management and Racial and Ethnic Studies and administered by the Department of Management.

Racial, ethnic, sexual and other minority experiences and problems in the world of work. Awareness training approach (what it's like to be . . .) featuring movies, guests, subgroup discussions and encounter-type exercises.

428. Dynamics of Marriage and Family Relations

Winter, Spring. 3(3-0) Juniors. Analysis of post-marital interpersonal adjustment from standpoint of family social work. Includes current social changes affecting these relationships, and specialized services available to families.

430. Introduction to Transactional Analysis

Winter. 3(3-0) Majors in Social Science, Education, Human Ecology, Communication; Juniors.

Major concepts of transactional analysis for analyzing, predicting, and changing human behavior. Concepts are applied to social work practice and to other helping professions.

433. Social Work as a Profession I
Fall. 3(3-0) Junior majors.

Historical development and philosophical basis of social welfare policy in relation to methods for problem solving at individual, group and community levels.

434. Social Work as a Profession II
Winter. 3(3-0) S W 433.

Continuation of S W 433. Human reactions under stress; social work intervention through welfare organizations and social action.

435. Social Work as a Profession III
Spring. 3(3-0) S W 434.

Social welfare programs to meet human needs; social planning for services.

439. Interviewing in Social Welfare
Fall, Winter, Spring. 3(1-4) Junior majors.

Principles of interviewing as applied to social welfare. Related laboratory experience.

440. Social Work Intervention I
Fall. 3(3-0) Senior majors, S W 467 concurrently.

Intervention related to individuals and families based on application of social work and social science knowledge and utilization of interviewing techniques.

441. Social Work Intervention II
Winter. 3(3-0) S W 440; S W 467 concurrently.

Continuation of S W 440. Development of techniques in social work practice focused on the situational-environmental assessment of client.

442. Social Work Intervention III
Spring. 3(3-0) S W 441; S W 467 concurrently.

Continuation of S W 441. Advanced study of choice and utilization of intervention modes emphasizing social work conceptual framework for enhancement of client social functioning.