

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.

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 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 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 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

(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. Refugees, Displaced Persons, Exiles

For course description, see Interdisciplinary Courses.

IDC. Issues in Refugee Assistance

For course description, see Interdisciplinary Courses.

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

(U C 492.) 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.

810. Introduction to Linear System Theory

Fall. 3(3-0) MTH 214. May not be used for graduate credit by College of Engineering 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.

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. Doctoral Dissertation 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 school. Interdepartmental with 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.

439. Interviewing in Social Welfare

Fall, Winter, Spring. 3(1-4) Juniors.

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

440. Social Work Intervention I

Fall. 3(3-0) Senior majors, S W 467A concurrently.

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

**SOCIAL SCIENCE SSC
(COLLEGE OF)**

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

For course description, see Interdisciplinary Courses.