

Descriptions – Small Animal Surgery and Medicine

**of
Courses**

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. 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 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

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. American 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. The Emergence of Man (S)
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)
(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 (S)
(233B.) Fall, Winter, Spring, Summer. 4(4-0) S S 201, 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 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)
(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.
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)
(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 (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)
(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 (S)
(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. 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 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.

444. Social Work in Corrections
Spring. 3(3-0) S W 205 or S W 433 or approval of school.
Introduction to juvenile and adult probation and parole, clinical services in juvenile institutions, and classification in prisons. Intended for students planning to enter corrections field.

450. International Studies in Social Welfare
Fall, Winter, Spring, Summer. 3 to 12 credits. May reenroll for a maximum of 24 credits. Approval of school.
Independent study or participation in formal programs outside the United States.

455. Dynamics of Group Process
Fall, Winter, Spring. 3(3-0) Senior majors.
Application of social science findings and group dynamics theory to social work practice in small groups.

460. Community Organization Methods in Social Work
Winter, Spring. 3(3-0) GEO 402 or SOC 329 or M C 251 or approval of school.
Social work methods for working with community development groups and community change processes for social service networks; analysis of social action strategies for solving community problems.

466. Social and Spatial Approaches to Community Services
Spring. 3(3-0) GEO 201 or S W 205 or approval of department. Interdepartmental with and administered by the Department of Geography.
Analysis of major themes in social service planning: communities and neighborhoods, public policy administration, social service networks, location of public facilities, evaluation and accountability of service systems.

467. Field and Agency Experience
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 16 credits. Senior majors; S W 440 or S W 441 or S W 442 concurrently.
Individual experience in approved social agencies and institutions. Weekly class. Credit calculated on basis of 30 contact hours per term, per credit.

470. Women's Issues in Social Work
Spring. 3(3-0) Senior Social Work majors with one previous course in women's issues or approval of instructor.
Evaluates sex discrimination social work education. Knowledge of and skill in non-sexist methods of therapy.

475. Philosophy and Techniques in Social Work Research
Fall, Winter. 3(3-0) Junior majors.
Concepts and methodology used for empirical investigation of social work problems including the philosophic basis of scientific investigation, techniques of measurement, research design, data collection, and data analysis.

476. Research Methods in Social Work Intervention
Winter, Spring. 3(3-0) S W 475 or approval of school.
Focus on the data analysis of the research process employing quantitative methods in measurement of outcomes of social work interventions.