SMALL ANIMAL SURGERY

504. Small Animal Clinic I
(VSM 501.) Fall, Winter, Spring, Summer. 3(0-10)
Eighth-term or ninth-term Veterinary Medicine students.
Concepts and practice of clinical veterinary medicine. Rotation through hospital services including outpatient clinic, medicine, surgery, radiology, clinical pathology, and pharmacy.

511. Small Animal Surgery and Medicine I
(VSM 511.) Fall, Spring. 8(7-3)
Seventh-term Veterinary Medicine students.
Basic surgery. Laboratory and lectures with television demonstrations. Anesthesiology, basic radiology, small animal husbandry, and diseases of the upper digestive system.

512. Small Animal Surgery and Medicine II
(VSM 512.) Winter, Summer. 7(6-3)
Diseases of musculoskeletal, digestive and respiratory systems. Includes radiology and surgical laboratory with demonstrations.

513. Small Animal Surgery and Medicine III
(VSM 513.) Fall Spring. 7(7-0) 512.
Diseases of urinary, endocrine, cardiovascular, hematopoietic and integumentary systems and specific infectious diseases. Includes radiographic and surgical techniques.

604. Small Animal Clinic II
(VSM 604.) Fall, Winter, Spring, Summer. 12(0-36) 504.
Concepts and practice of clinical veterinary medicine. Rotation through hospital services. Diagnosis, prognosis, treatment, and prevention of disease through handling of clinic patients under direct supervision of staff veterinarians.

614. Small Animal Surgery and Medicine IV
(VSM 614.) Winter, Summer. 3(3-0)
Occurrence, etiology, symptomatology, diagnosis, treatment and prevention of diseases of nervous system, organs of special sense, physical and chemical agents and neoplasia.

651. Clinico-Pathologic Conference
(VSM 651.) Fall, Winter, Spring, Summer. 0 or 1(1-0) May re-enroll for a maximum of 2 credits. Professional Veterinary Medicine students.
Clinico-pathologic conference on selected clinical cases. Students will be required to enroll each term (first nine terms) without credit and in terms ten and eleven for 1 credit each term.

805. Problems in Small Animal Surgery
(VSM 805.) Fall, Winter, Spring, Summer. Variable credit.

SOCIAL SCIENCE

SOCIAL SCIENCE — Descriptions of Courses

230. Supervised Individual Study
Fall, Winter, Spring, Summer. 1 to 4 credits; 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

210. Methods of Social Science I
Fall, Winter. 4(3-0) S S 232 or concurrently.
Characteristics of social science theory and method. Logical and practical aspects of data collection; standard techniques of investigation in the social sciences.
211. Methods of Social Science II  
Winter, Spring. 4(3-0) 210.  
Principles of measurement and scaling. Types of variables. Techniques and problems of sampling. Research design. Role of explanation and of value judgments in social science.

390H. Perspectives in Social Science  
Fall, Winter, Spring. 4(4-0) Juniors; approval of the Honors College. Preference given to majors in Social Science and professional schools of the College of Social Science. Seminars in selected topics in areas of knowledge represented by the social science disciplines and allied professional fields.

450. Contemporary Social Problems in the United States  
Fall, Winter. 4(4-0) To receive credit both 480 and 481 must be completed satisfactorily. 24 credits in social science.  
Seminars dealing with major theoretical and social problems in the United States, such as urban redevelopment, next steps in evolution of American life-styles, and domestic factors affecting the United States' interactions with the outside world. A multidisciplinary approach involving specialists from the social sciences and allied professional fields.

461. Contemporary Social Problems in the United States  
Winter, Spring. 4(4-0) To receive credit both 480 and 481 must be completed satisfactorily. 24 credits in social science.  
Continuation of 480.

480. Contemporary Social Problems Abroad  
Fall, Winter. 4(4-0) To receive credit both 482 and 483 must be completed satisfactorily. 24 credits in social science.  
Seminars dealing with major theoretical and social problems concerning foreign areas, such as economic and educational development, population explosions, war crises and peacekeeping. A multi-disciplinary approach involving specialists from the social science disciplines and allied professional fields.

481. Contemporary Social Problems Abroad  
Winter, Spring. 4(4-0) To receive credit both 482 and 483 must be completed satisfactorily. 24 credits in social science.  
Continuation of 482.

482. Contemporary Social Problems Abroad  
Fall, Winter. 4(4-0) To receive credit both 482 and 483 must be completed satisfactorily. 24 credits in social science.  
Continuation of 482.

811. System Methodology and Simulation  
Fall. 3(2-3) MTH 215; STT 441 or concurrently. Interdepartmental with the Computer Science Department and Systems Science and administered by Systems Science.  
First of three courses providing a working knowledge of the design and control of multi-process systems by simulation. Needs analysis, feasibility analysis, preliminary design using simulation models, microcomputer simulations—Monte Carlo, analog, digital and hybrid simulation of macroscopic systems, simulation languages, applications to physical and socio-economic systems.

812. System Identification  
Winter. 3(2-2) SYE 811. Interdepartmental with MTH and Systems Science and administered by Systems Science.  
Identification of system structure from operating data; correlation functions, frequency response, multi-point boundary value, econometric and other methods, applications to physical and socio-economic systems.

813. System Project  
Spring. 3(1-5) SYS 812. Interdepartmental with the Computer Science Department and Systems Science and administered by Systems Science.  
Team application of simulation methods to the design and/or control of a multi-process system. Projects will be taken from case studies or new problem areas where appropriate.

SOCIAL WORK  
Fall, Winter, Spring. 4(3-0) 215.  
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.

229. Marriage  
Fall, Winter, Spring. 4(4-0)  
Students may not receive credit in both 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.

311S. Summer Projects  
Summer. 1 to 3 credits. Juniors; approval of school. Not open to students in residence.  
Constructive work experience in social centers, summer camps, city recreation departments, state welfare institutions, and other approved agencies and organizations. Weekly progress reports and final written evaluation of total experience required.

322. Child Welfare  
Winter. 3(3-0) Juniors; SOC 351 or FYS 345.  
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.

367. Field and Agency Observation  
Fall, Winter, Spring. 3(2-2)  
Junior majors, 205; approval of school.  
Group observation in local social agencies, with classroom discussion of social welfare programs and problems encountered in these agencies.

400H. Honors Work  
Fall, Winter, Spring, Summer. 1 to 16 credits. Juniors; approval of school.  
Independent study of a phase of social work, for particularly able students.

420. Current Issues in Social Work  
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 8 credits. Majors; approval of school.  
Designed to integrate knowledge of social issues within a social science framework useful for social work. Includes review of selected issues and exploration of their relevance for social work.

461. Dynamics of Marriage and Family Relations  
Fall, Winter, Spring, Summer. 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. Social Work as a Profession I  
Fall. 4(3-2) Junior majors; PST 225; SOC 241.  
Social work in relation to development of the individual and his adaptation to his environment. Related laboratory experience.

434. Social Work as a Profession II  
Winter. 4(3-2)  
Continuation of 433. Human reactions under stress; social work intervention through welfare organizations and social action. Related laboratory experience.

435. Social Work as a Profession III  
Spring. 4(3-2)  
Continuation of 434. Social welfare programs to meet human needs; social planning for services. Related laboratory experience.

438. Social and Emotional Development  
Fall, Winter, Spring. 4(4-0)  
Juniors; PST 225; SOC 241.  
Interplay of emotional, social and physical factors that influence individual's adjustment to change and stress. Illustrative case material from social work agencies and related settings.

439. Interviewing in Social Welfare  
Fall, Winter, Spring. 3(3-0)  
Juniors. PST 225 or SOC 351.  
Analysis of generic principles of interviewing as used in social welfare and related fields.

444. Social Work in Corrections  
Spring. 3(3-0) 205 or 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.

455. Field and Agency Experience  
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 16 credits. Senior majors 433 or 434 or 435 concurrently; approval of school.  
Individual experience in approved social agencies and institutions. Weekly class. Credit calculated on basis of 30 contact hours per term, per credit.

490. Special Problems in Social Work  
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 12 credits. 367 or concurrently; approval of school.  
Each student will work under direction of a faculty member on an experimental, theoretical, or applied problem.

810. Human Behavior and Social Environment  
Fall, Winter. 4(4-0) Majors or approval of school.  
Interrelationship of social, cultural, subcultural, small group and situational factors that influence human adaptations to change and stress. Examination of psychoanalytic, behavioral and role theory approaches to personality development.