

432. Behavior of Youth

Fall, Winter, Spring. 3(3-0) 241 or 351.

Sociological analysis of normal and deviant behavior of youth. Issues related to the existence of youth subcultures. Relation of social change to behavior of youth.

433. Minority Peoples

Winter, Spring, Summer. 4(3-0) 241.

Sociology of majority-minority relations in contemporary, particularly American, society. Attention to specific ethnic, religious, and racial minorities in terms of prejudice and discrimination, with particular concern for minority status of the American Negro.

434. Social Deviance and Control

Spring. 3(3-0) 335 and one of the following: 160, 432, or C J 355 or approval of department.

The relationship between social structure, social control and social deviance; a survey and criticism of present social science theories in light of empirical research and application of theories to selected problem areas.

437. Rural Sociology

Fall, Spring, Summer. 4(4-0) 241 or approval of department.

Structure, function and change in rural areas of the United States. The major social systems, social class, demographic characteristics, commodity organizations and value orientations of rural people.

438. Sociology of Developing Societies

Winter. 4(4-0) 241.

Sociological elements of modernization. Process of technological change and type of programs to induce change. Emergence and accommodation of institutions to change. The changing population, family, community and ideological structures.

440. Sociology of Religion

Spring. 3(3-0) 241.

Relationship to society, with particular emphasis on modern society. Religion as a social institution; its relation to stratification and to political and economic organization. Forms of religious organizations. Religious believing and the rational, empirical orientation in modern culture.

443. Personality and Social Structure

Spring. 4(3-0) 351.

Effects of social structural variables upon personality development, adult socialization, role behavior, self image, and self evaluation.

445. Social Knowledge in the Modern World

Winter. 4(3-0) 241.

A sociological examination of the continuing effort to achieve a viable basis for relating social knowledge to the modern world. The sociology of knowledge, concerned with the relation of ideas to social life will provide the framework for the course. Attention will be given to such issues as: the role of the intellectual as cultural and political critic, and as man of knowledge; the relation of empirical knowledge to cultural values and social ideologies; the uses of reason and knowledge in human affairs; and the relation of intellect to power.

448. Small Group Interaction

Winter. 4(4-0) 351 or PSY 335.

Properties of social interaction in small groups. Relationship between group structure and social interaction.

451. Public Opinion and Propaganda

Fall, Spring. 3(3-0) 241.

The nature of public opinion, its development and change, its measurement. The nature of propaganda, principles of persuasion, and methods of analysis.

452. Collective Behavior

Fall, Spring. 4(3-0) 241.

Basic forms of collective behavior—crowds, publics, and the mass society—in terms of their institutional and social psychological consequences. Social movements and fashions within same general framework. Emphasis on personal and social significance of mass society.

466. Cross-Cultural Relations in the Modern World

Winter of even-numbered years. 3(3-0)

473. Interdepartmental with the Anthropology Department.

Relationship of native peoples to world-wide forces and reactions of native peoples to world struggle for power. Problems involved in administration of programs for non-Western societies.

471. Modern American Society

Winter, Spring, Summer. 4(3-0) 241;

Juniors.

Cultural patterns and social structures of contemporary American life. Relationship of these patterns and structures to individual and group adjustment.

473. Culture and Personality

Fall, Spring, Summer. 4(3-0) 241 or

ANP 171. Interdepartmental with the Anthropology Department.

Human nature in evolutionary and cross-cultural perspective. Special attention to relating theories of anthropology and psychology to methods of studying personality in non-Western societies.

475. Individual Research Projects

Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 12 credits. Nine credits in sociology and approval of department.

477. Complex Organizations

Fall. 4(4-0) 241 and 3 credits at the 300-400 level from the social science disciplines.

Bureaucracies and complex formal organizations in various institutional settings and the relationship among organizations in the community. Informal structures, internal conflict, integrative mechanisms, and the dilemmas of professional and administrative demands will be emphasized.

484. Social Stratification

Winter. 4(4-0) 241.

Survey of literature on the formation and changes in social class systems in modern and traditional societies. Social mobility in class, status and political orders.

492. Introduction to Methods of Social Research

Fall, Spring. 5(3-2) Nine credits in sociology; STT 201.

Elements of scientific logic; procedures and problem formation; development of concepts, hypotheses, theory; research design, sampling, measurement, data gathering; analysis, interpretation, and reporting research findings.

493. Selected Exercises in Social Research

Winter. 5(2-3) 492.

A laboratory course providing training in the application of social research methods, under laboratory and field situations, to problems in the major substantive areas of sociology, social psychology and anthropology.

494. Sociological Theory

Fall, Winter. 5(4-0) Eighteen credits in sociology.

Significant theoretical contributions to the development of sociological theory, both European and American.

499. Senior Seminar

Fall, Winter, Spring. 5(3-0) May re-enroll for a maximum of 15 credits. Senior majors or approval of department.

Selected issues in sociological research and theory.

803. Seminar in Industrial Relations

For course description, see Interdisciplinary Courses.

823. Organizational Behavior in Labor and Industrial Relations

Fall. 4(4-0) Approval of school. Interdepartmental with and administered by the School of Labor and Industrial Relations.

Analysis of why organizations, individuals and groups in unions, management and government act as they do in industrial relations situations with emphasis on sociological, psychological and cultural factors.

825. Seminar in Cross-Cultural Relations

Winter of odd-numbered years. 4(3-0) Approval of department. Interdepartmental with the Anthropology Department.

Analysis of the relations between superordinate and subordinate societies and between coordinate societies and cross-cultural exchange programs.

837. Special Topics in Rural Sociology

Fall, Winter, Spring. 3 to 8 credits. Approval of department.

Special fields of rural sociology such as farmers' organizations, population, migration, adaptation of practices, changing ideologies, political behavior, stratification, and attitudes.

838. Interdisciplinary Seminar on Africa

For course description, see Interdisciplinary Courses.

853. Social Attitudes

Spring. 4(4-0) Approval of department.

Origin, development, classification, and measurement. Relationship between attitudes and behavior. Students will conduct field research.

860. Social Statistics and Research: Seminar

Fall, Winter, Spring. 4(4-0) May re-enroll for a maximum of 12 credits. 492 and a statistics course.

Applications of probability and statistical models to social research.

862. Industry and Community

Spring. 4(4-0) 421, approval of department.

Seminar analyzing the research literature and theoretical developments in the sociology of industry and community.

864. Population Studies: Research Problems and Literature: Seminar

Winter. Variable credit. Approval of department.

Theoretical and substantive literature relating to demographic change, and research problems of special interest.

866. Selected Research and Literature In Social Institutions

Fall, Winter, Spring. Variable credit. May re-enroll with approval of department.

A review and analysis of the significant literature concerning major problems in the institutional structure of modern society. A. Economic and Industrial; B. Political; C. Religious; D. Family.

868. Social Organization and Administration

Fall, Spring. 3(3-0) Approval of department.

General principles of inter and intra organizational change in the administrative process.

872. Seminar in Special Subject Fields

Fall, Winter, Spring. Variable credit. Approval of department.

Special fields of study will include any area of sociology and social psychology selected.

875. Individual Research Projects

Fall, Winter, Spring, Summer. Variable credits. Approval of department.

877. Seminar in Complex Organizations

Winter. 4(4-0) 421 or 477 or approval of department.

Major theoretical and methodological problems in studying complex organizations. Using a comparative approach, special emphasis will be given to the design and execution of empirical research.

880. Individual Readings

Fall, Winter, Spring, Summer. Variable credits. Approval of department.

884. Seminar in Social Stratification

Spring. 3(3-0) Approval of department.

Theory and research in societal systems of stratification. The articulation of stratification orders to institutional structures. Research design in stratification studies.

885. The Sociology of Mass Communication

Winter. 4(3-0) Approval of department.

Seminar on social-psychological aspects of mass communication in relation to cultural values and social control and the impact of mass media in a variety of social groups and institutions.

895. Computer Simulation of Social Behavior

Winter. 4(3-2) Approval of department.

Survey of research in the simulation of human behavior. Training in the basic technological and conceptual tools necessary for independent research in the area. Working in detail through an operating large simulation program to appreciate how the tools apply in practice. Designing and writing a simulation program.

899. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

901D. Educational Sociology: Seminar

Fall, Winter, Spring. Variable credit. Approval of department. Interdepartmental with Education.

930. Sociology of Work

Spring. 4(4-0) 430, 484 or approval of instructor.

Theory and research problems in occupational structure, work settings, functions and meanings of work, occupational mobility and career patterns.

940. Topics in Mathematical Sociology

Fall, Winter, Spring. 5(5-0) Approval of department.

Seminar in the mathematical analysis of selected topics in sociology, such as, kinship systems, stratification systems, formal organization, social mobility, population and migration, social influence, mass behavior.

941. Human Ecology

Fall. 4(4-0) Approval of department.

The analysis of population aggregates in terms of their place in a total ecosystem, defined as the structure of interdependencies involving population, environment, technology, and patterns of organization.

942. Urban Theory

Winter. 4(4-0) 941; 956 and 967 recommended.

Examination and critique of competing theories of urban structure and process: theories of evolution of human settlement, classic location theories, human ecology, communication and system theories.

943. Seminar in Human Ecology and Urban Sociology

Spring. 4(4-0) 942.

Presentation and critique of theory and research in human ecology and urban sociology with emphasis on student papers and research designs.

953. Experimental Methods

Winter. 4(3-2) 860.

The design and analysis of social experiments, with special emphasis on laboratory investigation of social processes.

954. Social Survey Methods

Spring. 4(4-0) 860.

The design and analysis of theoretically oriented survey research. Sampling, questionnaire construction, interviewing, and data processing.

955. Field Research Methods

Spring. 4 credits. 492; approval of department.

An overview of the design and execution of social research.

956. Theory of Sociological Inquiry

Spring. 4(4-0) 492.

Critical review of some of the procedures followed by sociologists and social psychologists in their attempts to achieve reliable knowledge.

963. Research Problems and Literature in Social Psychology

Fall. 4(4-0) Fifteen graduate credits in sociology or approval of department.

Central points of view and concepts of contemporary social psychology with emphasis upon symbolic interaction, collective behavior, small groups, attitudes and behavior, and culture and personality.

964. Seminar in Small Group Research

Fall. 3 to 5 credits. Thirty gradu-

ate credits including 963, or approval of department.

The experimental and theoretical investigation of organizational processes in small groups.

966. Social Structure and Personality

Winter. 3 credits. 963 or approval of department.

Theoretical and research problems in analysis of influence of social positions on personality, and influence of personality and social factors in allocating persons to different social positions. Stress will be placed upon quantitative research and contemporary theories of social structure and personality.

967. Introduction to Formal Theory in Sociology

Spring. Variable credit. 966.

Analysis of the structure of formal theory in sociology and of the problems of interpretation and verification of deterministic and probabilistic theories. Examination of specific practices of theory construction.

968. Symbolic Interactionism: Theory and Research

Spring. 1 to 4 credits. 963; social psychology concentration.

Theoretical and research problems within the framework of symbolic interaction. The socialization process and the development, maintenance, and enhancement of the self. Critique of the literature and proposals for new research directions.

976. Contemporary Social Systems

Winter. 4 credits. 494 or approval of department.

Comparison and analyses of concepts, conceptual schemes and theories of outstanding social theorists in relation to modern research.

977. General Social Organization

Fall. 4 credits.

Research and literature on the structure and function of social organizations ranging from societies to small groups.

978. Comparative Rural Social Organization

Spring. 4 credits.

Structure and function of social organizations ranging from societies to small groups. The comparative approach will be used in studying phenomena involved in the transitions from agrarian to industrial societies.

981. Comparative Sociology

Fall. 3 or 4 credits. Doctoral student in sociology; completion of core courses.

Macro-sociological studies of societies. The relationship of the whole to the varied parts of societies, the connection between societies, and the patterns of change in different societies. The development of research with respect to the cross-cultural study of social structures, social institutions, and social systems.

982. Comparative Social Psychology

Winter. 3 or 4 credits. 981.

Social psychological research problems involving a comparative methodology. Social psychological functions of education, mobility, mass media use, etc. Comparative study of the social psychology of modernization.

983. Comparative Research Methods

(980.) Spring. 3 or 4 credits. 981.

Sampling problems, data collection strategies, problems of translation and concept equivalence. Management, analysis and interpretation of cross-cultural data.

991. Research Seminar in Work and Organization

Fall, Winter, Spring. 2(2-0) May re-enroll for a maximum of 6 credits. Thirty graduate credits and approval of instructor. An advanced seminar devoted to analysis of designs used in current research in work and organization.

999. Research

Fall, Winter, Spring, Summer. Variable credits. Approval of department.

SOIL SCIENCE

SLS

College of Agriculture and Natural Resources

202. Soils and Man's Environment

Winter. 3(3-0) Interdepartmental with Fisheries and Wildlife and Resource Development Departments and Natural Resources. Use of soil-water resources in a technological society as it relates to environmental quality. Nature of pollution problems and their possible solutions. Food production and world population.

210. Fundamentals of Soil Science

Fall, Spring. 5 credits. Principles of the origin and development of soils. Relationship of properties to utilization and soil fertility to plant composition and animal health. Emphasis is placed on changing soils to serve man.

331. Soil Management

Winter. 4(4-0) 210. Management of soils, drainage and irrigation, organic matter, tillage, rotation, conservation practices, soil reaction, lime, fertilizers, and micronutrients. Soil management vs. soil conservation. Special study in general crops, horticultural crops, greenhouse crops, turf and organic soils.

390. Soil Conservation and Land Use

Spring. 3(3-0) 210. Soil resources of the United States and methods and plans for soil conservation including control of erosion. Interpretation of soil survey maps and land evaluation for farm crops, fruits, forestry, engineering and wildlife. Soil judging.

410. Special Soil Problems

Fall, Winter, Spring, Summer. 1 to 3 credits. May re-enroll for a maximum of 5 credits. Approval of department.

420. Seminar

Winter. 1(1-0) May re-enroll for a maximum of 4 credits. Interdepartmental and administered jointly with Crop Science.

424. Forest Soils

Spring. 4(3-3) 210; FOR 220. Interdepartmental with and administered by the Forestry Department. Interrelationships of forest site and the growth of forests. Classification and productivity of forest soils. Effects of silvicultural and forest management practices on the soil. Two-day field trip required.

430. Soil Fertility and Fertilizers

Winter. Summer of even-numbered years. 5(4-1) 210. Assessment of the fertility of soils and alteration of fertility by the use of fertilizers, lime, manure, and cropping systems. The role of colloids in ion fixation and exchange. Soil and tissue tests. The history, technology, and use of fertilizers.

442. Soil Microbiology

(481.) Spring. 4(3-2) MPH 200; 301 or 401. Interdepartmental with and administered by the Microbiology and Public Health Department. Major groups of microorganisms of importance in soils are studied with emphasis on ecological, biochemical, and physical aspects.

470. Soil Classification and Mapping

Fall, Spring; Summer of odd-numbered years. 4(0-8) 210 or approval of department. Classification of soils. Interpretation of profiles in relation to land utilization for farm crops, fruits, forestry, highway-airfield engineering, county and township planning, urban development and wildlife. Preparation of land use reports based upon soil maps of assigned areas.

480. Soil Geography and Land Use of the World

Winter. 4(4-0) 210 or approval of department. Survey of the great soil groups and their use throughout the world, their location, significant characteristics, how they are and can be utilized, and the relation of each to food and population increase.

488. The Impact of Animal Resource Management Upon the World's Developing Nations

Winter. 3(4-0) For course description, see Interdisciplinary Courses.

810. Advanced Studies in Soil Science

Fall, Winter, Spring, Summer. 1 to 5 credits. May re-enroll for a maximum of 6 credits. Approval of department. Areas of study include chemistry, fertility, geography, management, microbiology, micropedology, organic soils, physics, physical chemistry, and soils of the tropics.

820. Seminar

Fall, Winter, Spring. 1(1-0) May re-enroll for a maximum of 3 credits.

825. Clay Mineralogy

(945.) Winter. 4(3-4) 840, 850 or approval of department. Interdepartmental with and administered by the Geology Department. Structures and properties of clays; their origins, occurrence, and utilization. Methods of studying clays including x-ray diffraction, differential thermal analysis, infrared absorption and other chemical and physical techniques.

840. Soil Physics

Fall. 5(3-6) 430; CEM 162 or approval of department. Physical properties of soil (texture, structure, consistency, aeration, water, temperature, etc.), their quantitative measurement, and relation to plant growth, and agronomic and engineering practices.

850. Soil Chemistry

Winter. 5(3-6) 430; CEM 162, 383; or approval of department. Chemistry of mineral weathering and soil formation, ion activities, ionic exchange and equilibrium reactions, soil pH, specific elements and their chemical analysis, and availability of nutrients to plants.

860. Soil Biochemistry

Spring of even-numbered years. 4 credits. 850; MPH 442. Biochemical transformations of mineral nutrients and of natural and exotic organic materials in soils, considered in relation to chemical, physical and ecological systems in the complex soil environment.

870. Origin and Classification of Soils

Winter. 4(3-2) 470, 840, or approval of department. Genesis, morphology and classification of major soils of the world. Relationships among soils in natural and cultural landscapes. How soil properties affect their use, management and conservation. Land classifications for various purposes.

880. Soils and Land Use in Tropical and Subtropical Regions

Spring. 3(3-0) Approval of department. Interdepartmental with Agriculture. Problem oriented studies of soils and land use in the tropics and subtropics in relation to their genesis, morphology, taxonomy, and management.

899. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

930. Soil Fertility

Spring. 4(4-0) 850 or approval of department. Fundamental concepts in soil fertility and nutrient uptake by plants; history and development of field plot and greenhouse techniques; research methods in soil fertility; and origin, utilization and management of organic soils.

999. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

SOUTH ASIAN LANGUAGES

See Linguistics and Oriental and African Languages.

SPANISH

See Romance Languages.

STATISTICS AND PROBABILITY

STT

College of Natural Science

Courses are classified as follows:

Courses with the last two digits more than 40 require minimum prerequisites of MTH 215.

Courses with the last two digits less than 40 require fewer mathematics prerequisites.

Introductory courses are further classified as follows:

121, 123—sequence for Business Administration students.

201—survey course.