SOCIOLOGY

Sociology of Education
Winter, Summer. 3(3-0) 241. Interdepartmental with Education.
School as a social institution, school-community relations, social control of education, and structure of school society.

Dynamics of Population
Spring. 4(3-0) 241.
General demographic theories, especially those concerning population growth. Population distribution and density, age, sex, and ethnic composition. Emphasis on fertility, mortality, and migration and their influences on population change.

Industrial Sociology
Winter, Spring. 3(3-0) 241.
Industrialization in Western and non-Western societies, social organization of work, internal dynamics of work plant as a social system, and labor-management relations in various cultural settings.

Political Sociology
Fall. 4(3-0) 241.
Political action in the United States in relation to theory and practice of democracy. Nature of social pressures, political groups, politician and effect of local community situation on political activity will be considered.

The Family in Contemporary America
Winter. 3(3-0) 241.
Sociological analysis of development of modern American family, its relationship to society, and its contribution to personality.

Sociology in Mental Health
Spring. 3(3-0) 351 or PSY 335.
Sociological theories of etiology of mental disorder: research on social epidemiology and ecology, impact of social structure, popular conceptions of mental health and deviancy; emerging ideologies of mental health disciplines.

Contemporary Communities
Winter, Summer. 4(4-0) 241.
An examination of the contemporary community. Emphasis will be placed on associational and institutional organization in communities of varying complexity. Particular attention will be paid to social organizational theory as it applies to the problems of American community life.

Urban Sociology
Fall, Winter, Spring. 4(4-0) 241.
Urban theory and research techniques emphasizing the demography, ecology and social organization of American cities and sociological aspects of urban planning and redevelopment.

Sociology of Occupations and Professions
Winter. 3(3-0) 241.
Social significance of work. Forces changing contemporary occupational structure. Factors associated with typical career patterns of occupations and professions. Social organization of occupational groups with emphasis on their ideology and politics.

Comparative Urban Sociology
Spring. 4(4-0) 429 or approval of department.
Urban demography, ecology, and social organization viewed historically and cross-culturally and emphasizing the contemporary urbanization processes. Theory, techniques, and data of international comparative urban analysis.
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: 469, 472, or C J 355 or approval of department.
The relationship between social structure, social control and social deviance; a survey and critique 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 belief 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 the 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) 241.
Interdepartmental with the Anthropology Department.
Relationship of native peoples to world-wide forces and reactions of native peoples to world culture pressure. 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. 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. 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.

494. Sociological Theory
Fall, Winter. 5(4-0) Eighteen credits in sociology.
Significant theoretical contributions to 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.
Origins, 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.

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.

890. 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; 958 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(0-0) 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) 493.
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 graduate 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 interactionism. 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 to 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.
SOIL SCIENCE

College of Agriculture and Natural Resources

202. Soils and Man's Environment 
Winter. 3(0-2) 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, highway-airfield engineering, county and township planning, urban development and wildlife. Preparation of land use reports based upon soil maps of assigned areas.

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(3-2) 210; FOR 390. 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. Even-numbered years. 3(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.

440. Soil Microbiology 
(431.) 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(8-0) 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.

Winter. 3(2-0) 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(4-0) 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(3-0) 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(3-0) 450; CEM 162, 337, 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. 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 

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.

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

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.