990. Independent Study in Social Work
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 12 credits. Approval of school.
Individual study of a theoretical or applied problem in social work.

SOCIOLOGY

College of Human Medicine
College of Osteopathic Medicine
College of Social Science

150. The Individual in Modern Society (5)
Fall, Spring, 4(4-0)
Recognition and description of social conditions which lead to individual human development. Exploration of ways in which society facilitates and fails to facilitate individual human development.

160. Contemporary Social Problems
Fall, 4(4-0)
Identification of the factors and issues involved in mankind's fight for survival in our technological society. Relationship of humanitarianism and technology. Examination of the shifts and suggestions for dealing with problems of warfare, cybernation, human rights.

IDC. Introduction to Latin America II
For course description, see Interdisciplinary Courses.

241. Introduction to Sociology
Fall, Winter, Spring, Summer, 4(4-0)
Sophomores.
Introduction to nature of sociological inquiry and to concepts and principles of sociology. Analysis focuses on institutional features of modern society and on structure and dynamics of social organization.

251. Social Psychology
Fall, Winter, Spring, Summer, 5(5-0)
SOC 241. Students may not receive credit in both SOC 251 and PSY 235.
Social psychology. Analysis of social behavior from a sociological perspective. Relation of the individual to his social environment with special reference to group process and interaction, social structure and personality, mass phenomena, and social attitudes.

310. Social Stratification
Fall, Winter, 4(4-0) SOC 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.

311. Development of Sociological Theory
Winter, Spring, 4(4-0) SOC 310.
Significant theoretical contributions to the development of sociological theory, both European and American.

312. Research Methods in Sociology
Fall, Spring, 5(3-2) STT 201 or PST 215.
Elements of scientific logic; procedures and problem formation; development of concepts, hypotheses, theories; research design; sampling, measurement, data gathering; analysis, interpretation, and reporting research findings.

320. Criminology
Fall, Winter, Spring, Summer, 4(4-0) SOC 241 or C J 110 or approval of department. Interdepartmental with and jointly administered with the School of Criminal Justice.
Crime analyzed from sociological perspective: meaning of crime, crime statistics, and measurement, theories of crime causation, crime typologies, e.g., professional organized, violent, sex, white-collar crimes, juvenile delinquency.

321. Industrial Sociology
Fall, 4(4-0) SOC 241.
Industrialization in Western and non-Western societies; social structure of work; internal dynamics of work plant as a social system; and labor-management relations in various cultural settings.

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

323. Sociology of the Family
Winter, 4(4-0) SOC 241.
Sociological analysis of the family, its development as a social institution, its relationship to society, and its contribution to personality.

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

332. Behavior of Youth
Winter, Spring, 4(4-0) SOC 241.
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.

333. Racial and Ethnic Inequality
Winter, Spring, 4(4-0) SOC 241.
Sociology of racial and ethnic problems in contemporary society with an emphasis on American society. Attention to specific ethnic and racial groups in terms of prejudice and discrimination with particular concern for the resolution of inequality.

355. Sex Roles
Winter, 4(4-0) SOC 241.
A sociological inquiry into traditional and changing roles of women and men in Western societies; sex roles in economic and family institutions; variations by culture, class, ethnicity, socialization.

400H. Honors Work
Fall, Winter, Summer 1 to 4 credits. May reenroll for a maximum of 20 credits. Approval of department.

401. Sociology of Education
Winter, Summer, 4(4-0) SOC 241. Interdepartmental with Education.
School as a social institution, school-community relations, social control of education, and structure of school society.

420. Dynamics of Population
Fall, Winter, 4(4-0) One 300 level sociology course.
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.

424. Sociology in Mental Health
Spring, 4(4-0) SOC 251 or PSY 335.
Sociological theories of etiology of mental disorders; research on social epidemiology and ecology; impact of social structure; popular conceptions of mental health and deviance; emerging ideologies of mental health disciplines.

427. Social Movements and Ideologies
Winter, Spring, 4(4-0) One 300 level sociology course.
The analysis of the collective response to situations of social tension and change that take the form of social movements and their accompanying ideologies. Both historical and contemporary cases will be examined.

428. Contemporary Communities
Fall, Spring, 4(4-0) One 300 level sociology course.
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.

430. Sociology of Work
Winter, 4(4-0) One 300 level sociology course.
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.

434. Social Deviance and Control
Spring, 4(4-0) SOC 320.
The relationship between social structure, social control and social deviance; a survey and reinterpretation of present social science theories in light of empirical research and application of theories to selected problem areas.

437. Rural Sociology
Fall, Spring, 4(4-0) One 300 level sociology course.
Structure, function and change in rural areas of the United States. Major social systems, social class, demographic characteristics, commodity organizations, and value orientations of rural people.

438. Sociology of Developing Societies
Spring, 4(4-0) One 300 level sociology course.
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 of even-numbered years. 4(4-0)
SOC 241 or approval of department.
Relationship to society, with particular emphasis on modern society. Religion as a social institution, its role in stratification and to political and economic life. Forms of religious organizations. Religious beliefs and the rational, empirical orientation in modern culture.

441. Individual Research Projects
Spring. 4(4-0) SOC 251 or PSY 335, one 300 level sociology course.
Effects of social structural variables upon personality development, adult socialization, role behavior, self image, and self evaluation.

442. Cross-Cultural Relations in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

443. Personality and Social Structure
Winter. 4(4-0) One 300 level sociology course.
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.

444. Social Knowledge in the Modern World
Winter. 4(4-0) One 300 level sociology course.
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.

445. Small Group Interaction
Winter. 4(4-0) One 300 level sociology course.
Properties of social interaction in small groups. Relationship between group structure and social interaction.

446. Modern American Society
Winter, Spring. 3(3-0) One 300 level sociology course.
Cultural patterns and social structures of contemporary American life. Relationship of these patterns and structures to individual and group adjustment.

447. Culture and Personality
Fall. 4(4-0) One 300 level anthropology or sociology course. Interdepartmental with the Department of Anthropology.
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.

448. Individual Research Projects
Fall. Winter, Spring, Summer. 1 to 4 credits. May enroll for a maximum of 12 credits. Nine credits in sociology and approval of department.

449. Complex Organizations
Spring. 4(4-0) One 300 level sociology course.
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.

450. Cross-Cultural Relations
Spring of odd-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

451. Social Knowledge in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

452. Personality and Social Structure
Winter. 4(4-0) One 300 level sociology course.
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.

453. Cross-Cultural Relations in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

454. Social Knowledge in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

455. Personality and Social Structure
Winter. 4(4-0) One 300 level sociology course.
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.

456. Cross-Cultural Relations in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

457. Social Knowledge in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

458. Personality and Social Structure
Winter. 4(4-0) One 300 level sociology course.
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.

459. Cross-Cultural Relations in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

460. Social Knowledge in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

461. Personality and Social Structure
Winter. 4(4-0) One 300 level sociology course.
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.

462. Cross-Cultural Relations in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

463. Social Knowledge in the Modern World
Winter of even-numbered years. 4(4-0)
SOC 473. Interepartmental with the Department of Anthropology.
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.

464. Personality and Social Structure
Winter. 4(4-0) One 300 level sociology course.
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.
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. Topics in Multivariate Analysis  
Winter. 5(5-0) STT 421, STT 422.  
Selected topics in the areas of path analysis, factor analysis and other multivariate techniques.

Winter. 3 to 4 credits. May reenroll for a maximum of 16 credits. Approval of department.  
Theoretical and substantive literature relating to demographic change, and research problems of special interest.

865. Dependency, Development, and International Inequality  
Winter. 4(4-0) Approval of department. 
Focus on conceptual formulations concerning uneven development and problems of social and economic change within structures of dependency; uses of research-based knowledge for change and development.

866. Social Structure and the Individual  
Winter. 4(4-0) SOC 811 or approval of department.  
Contemporary theory and research on the influence of social structure on the individual and the interaction of the individual and social structure as determinants of behavior.

875. Individual Research Projects and Industrial  
B. 

department.

880. Individual Research Projects  
Fall, Winter, Spring. Variable credit.  
May reenroll 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.

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.
SPANISH

See Romance and Classical Languages.

STATISTICS AND PROBABILITY  STT

College of Natural Science

Introductory courses are further classified as follows:

315. 316--sequence for undergraduate students of Business Administration.

201--survey course.

421, 422, 423--minimal sequence for students planning to use statistical methods in their research.

441, 442, 443--minimal sequence in theory of statistics. Qualified students should take the 861, 862, 863 sequence instead.

861, 862, 863--sequence for students preparing to do advanced work in statistics.

201. Statistical Methods

Fall, Winter, Spring, Summer. 4(4-0)
MTH 108 or MTH 111. Primarily for students in psychology, sociology, anthropology, political science, economics, agriculture, and forestry. Credit may be earned in more than one of the following: STT 201, STT 315, STT 421. Descriptive statistics, elementary probability and combinatorics. The binomial distribution. Random variables, their expectations and variances. Central Limit Theorem, estimation and inference. Simple tests based on the binomial, normal, t, chi-square and F distributions.

290. Special Topics in Statistics and Probability

Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits. MTH 108 or approval of department.

315. Introduction to Probability

Fall, Winter, Spring, Summer. 4(4-0)
MTH 111. Credit may not be earned in more than one of the following: STT 201, STT 315, STT 421. Set and algebra of sets. Chance experiments, outcomes and events. Probabilities of events, Conditional probability, independent trials, Bayes' theorem. Introduction to statistical inference relevant to business decision problems.

316. Fundamentals of Statistical Inference

Fall, Winter, Spring, Summer. 4(4-0)
STT 315. Primarily for students in the College of Business, Interdepartmental with the Department of Marketing and Transportation Administration. Description of sample data, applications of probability theory, sampling, estimation, tests of hypotheses.

317. Quantitative Business Research Methods

Fall, Winter, Spring, Summer. 4(4-0)
STT 315. Interdepartmental with and administered by the Department of Marketing and Transportation Administration. Application of statistical techniques to business decision making. Topics covered include applications of linear regression and correlation, analysis of variance, selected nonparametric tests, time series, and index numbers.

341. Probability for Teachers

Spring. 4(4-0) MTH 301 or approval of department. Primarily for majors in mathematical education. Probability theory will be studied as a mathematical structure. Although some examples of the use of the theory will be discussed (as the use of some theorems is discussed in a course in plane geometry) the major emphasis will be on understanding the structure of probability theory.

351. Introduction to Statistics

Spring. 4(4-0) MTH 214. Probability models, discrete random variables, the binomial, hyper-geometric and Poisson distributions, statistical inference based on the binomial distribution, continuous random variables, test of hypothesis and confidence intervals based on the normal distribution.

421. Statistics I

Fall, Winter, Spring, Summer. 4(4-0)
MTH 108. Credit may not be earned in more than one of the following: STT 201, STT 315, STT 421. This course and STT 422, STT 423 form a one year sequence. Statistics for those without a calculus background. STT 421 provides an introduction to a few of the main ideas of probability and statistics. The course sequences STT 441-2-3 and STT 861-2-3 form one year sequences in statistics for those with a calculus background. Those expecting to use statistics in their graduate research should complete one of the full year sequences.


422. Statistics II

Fall, Winter, Spring, Summer. 3(3-0)
STT 421. Nonparametric models, contingency table analysis, sample survey methods, simple linear regression, one-way analysis of variance.

423. Statistics III

Fall, Winter, Spring, Summer. 3(3-0)
STT 422. Multiple regression. Analysis of variance for various experimental designs, including randomized block, two and three way factorial, nested and Latin square designs.

441. Probability and Statistics I: Probability

Fall, Winter, Spring, Summer. 4(4-0)
MTH 315. Mathematical probability as a basis for the theory of statistics. Discrete and continuous probability models, conditional probability and independence, random variables, central limit theorem, sampling distributions.

442. Probability and Statistics II: Inference

Winter, Spring. 4(4-0) STT 441; MTH 334 or concurrently. Estimation, confidence intervals, tests of hypotheses, linear hypotheses.

443. Probability and Statistics III: Inference

Spring. 4(4-0) STT 442. Multiple linear regression, analysis of variance, goodness of fit tests, certain non-parametric tests.

490. Statistical Problems

Fall, Winter, Spring. 1 to 6 credits. Approval of department. Individualized study adapted to the preparation and interests of the student.

520. Biostatistical and Epidemiological Reasoning

Fall. 4(4-0) Approval of instructor. Interdepartmental course administered by the Department of Community Health Science. Concepts and principles from biostatistics and epidemiology to facilitate critical reading literature relevant to clinical medicine and community health. Emphasis on design and interpretation.

825. Sample Surveys

Fall. 3(3-0) STT 423 or STT 442 or STT 862. Application of statistical sampling theory to survey designs involving simple random, stratified, and systematic samples; sub-sampling; double sampling; ratio and regression estimates; other topics.