**SCI**  
**Science**

**SCI 101 SCIENTIFIC REASONING.**  
A lecture/recitation course that stresses quantitative and logical reasoning skills that form the basis of science courses. The course will emphasize how to take verbally presented problems, recognize the mathematical patterns within them, and solve them. Lecture, one hour; recitation, four hours per week. Prereq: Math ACTE greater than or equal to 18, or MA 108R, or Math Placement Test.

**SOC**  
**Sociology**

**SOC 101 INTRODUCTORY SOCIOLOGY.**  
Introduction to the concepts and methods of sociology. Investigation of socialization, group processes, social institutions and social change. Student may not receive credit for both this course and GEN 102.

**SOC 151 SOCIAL INTERACTION.**  
Explores the fundamental sociological and social psychological processes underlying human interaction. Focuses on the dynamics of symbolic exchange, the social context and processes shaping it, and examines its effects on the formation and maintenance of social and personality systems. Prereq: SOC 101 or PSY 100 or PSY 110 or equivalent social science background.

**SOC 152 MODERN SOCIAL PROBLEMS.**  
An introductory course involving an examination of selected social problems of the day. Topics may include family, poverty, education, crime, race, housing, population, health care, industrial development, and power. Prereq: SOC 101 or SOC 151 or equivalent social science background.

**SOC 220 THE COMMUNITY.**  
Social organization and process in modern communities; social techniques of community improvement. Prereq: Three hours or equivalent social science background.

**SOC 235 INEQUALITY IN SOCIETY.**  
Analysis of the nature, development, and persistence of inequality in various societies. Diverse dimensions of inequality are viewed as the basis for a number of specific social problems in Western and non-Western societies. Social origins of inequality are emphasized. Policy implications are addressed. Prereq: Three hours of sociology or equivalent social science background.

**SOC 249 MASS MEDIA AND MASS CULTURE.**  
An examination of the interplay between the technology and content of the mass communications media and culture. Prereq: COM 101 or SOC 101 or its equivalent. (Same as COM 249.)

**SOC 260 POPULATION, RESOURCES AND CHANGE.**  
The interrelationships among population variables (size, composition, change), social systems, and environmental conditions will be explored from an issues or problems approach. The tools of population studies will be introduced and used to examine how population influences society and mankind’s use of the environment. Prereq: Three hours of sociology or equivalent social science background.

**SOC 299 SPECIAL INTRODUCTORY TOPICS IN SOCIOLOGY (Subtitle required).**  
An introductory study of a selected topic in sociology. Topics may include, but are not limited to, industrial sociology, sociology of aging, sex roles, criminology, stratification, and urban sociology. May be repeated to a maximum of six credits under different subtitle. Prereq: Three hours of introductory level sociology or consent of instructor.

**SOC 302 SOCIOLOGICAL RESEARCH METHODS I.**  
Introduction to the research methods as applied to sociological problems. Issues addressed include theory construction, conceptualization, measurements, data presentation, and problems of analysis. Required for majors. Prereq: The introductory level sociology course or GEN 102.

**SOC 303 SOCIOLOGICAL RESEARCH METHODS II.**  
Research methods and designs used in sociology. Sociological problems will be analyzed through readings, discussion, use of measurement and analytical procedures, and projects or field work. Required for majors. Prereq: SOC 302 or consent of instructor.

**SOC 335 WOMEN AND MEN IN SOCIETY.**  
A sociological study of the sexual division of society with special emphasis on social, structural, and cultural influences. Prereq: SOC 101 or WS 200 or permission of instructor.

**SOC 340 SOCIOLOGY OF U.S. AGRICULTURE.**  
A survey of the issues, methodology, and theory related to the sociology of U.S. agriculture. Topics include agrarian social movements, agricultural science and technology, comparative commodity systems, environmental issues and the role of gender in agricultural production. Prereq: Six hours of social science or consent of instructor.

**SOC 342 ORGANIZATIONS IN SOCIETY.**  
The roles of formal organizations including bureaucratic structures in society are examined with special attention given to linkages to contemporary social conditions. Relationships among such organizations and basic internal organizational processes are also studied. Prereq: Six hours of social science or consent of instructor.

**SOC 344 SOCIAL PSYCHOLOGY.**  
Theoretical and empirical analysis of individual behavior in the social setting with particular emphasis on social learning, motivation, and the measurement, formation, and changing of social attitudes. Prereq: One of the following: PSY 100, SOC 101, or GEN 102. (Same as PSY 344.)

**SOC 350 TOPICS IN SOCIOLOGY.**  
Discussion, readings, and papers focusing on topics in sociology. Directed by a staff member having specific competence in the topics under study. Current research developments in particular sociological subfields will be stressed. May be repeated to a maximum of nine credits. Prereq: Six hours of social science or consent of instructor.

**SOC 354 THE FAMILY IN CROSS-CULTURAL PERSPECTIVE.**  
This course approaches the study of the family from a comparative perspective, emphasizing cross-cultural variability in the structure and function of family. Kinship, household formation, sex roles, and socialization are examined in the context of the family, as well as patterns of interaction, personality formation, and family pathology. Prereq: Introductory social science course. (Same as FAM/SW 354.)

**SOC 362 PRACTICUM IN VOCATIONAL EDUCATION, AGRICULTURAL COMMUNICATIONS, AND LEADERSHIP.**  
Supervised experiences in schools, businesses and agencies. Required of all Agricultural Education, Communications, Leadership and Home Economics Education majors. Includes observation, participation, experience, field trips, inspection of programs and professional organizations. May be repeated to a maximum of nine credits. Prereq: Junior standing, majors only. (Same as AED/AGC/HEE 362.)

**SOC 380 DEVELOPMENT OF NON-WESTERN SOCIETIES.**  
An introduction to the sociological study of the development process in non-Western societies. Primary focus is placed on the social, structural, cultural, ecological and demographic factors that differentiate the development of non-Western from Western societies. Prereq: Six hours in social sciences.

**SOC 395 INDEPENDENT WORK.**  
Study of some special topic by duly authorized students. May be repeated to a maximum of four credits. Prereq: Major or minor, a standing of 3.0 in the department, and learning contract filed with department chair.

**SOC 399 FIELD BASED/COMMUNITY BASED EDUCATION.**  
A community-based or field-based experience in sociology under the supervision of a faculty member. May be repeated to a maximum of 15 credits. Pass-fail only. Prereq: Consent of instructor and department chairperson; completion of departmental learning agreement.

**SOC 409 THE FAMILY.**  
A study of the institutions of marriage and the family and an analysis of the various factors and forces at work in our time which are affecting the individual marital relationships. Prereq: Six hours of social science or consent of instructor.

**SOC 418 SOCIAL CHANGE.**  
A sociological analysis of the sources, processes and consequences of social change. Prereq: Six hours of social science or consent of instructor.

**SOC 420 COMMUNITY ANALYSIS.**  
A study of communal structure and processes with special emphasis on strategies of field investigation of particular communities. Prereq: Six hours of social science or consent of instructor.

**SOC 425 DIMENSIONS OF AGING.**  
An introduction to the sociological study of the development process in non-Western societies. Primary focus is placed on the social, structural, cultural, ecological and demographic factors that differentiate the development of non-Western from Western societies. Prereq: Six hours in social sciences.

**SOC 429 SPECIAL TOPICS IN SOCIOLOGY (Subtitle required).**  
A course in a selected area of sociology. Topics include social problems and social institutions. Prereq: 12 credits in sociology or consent of instructor. (Same as FAM/SW 429.)

**SOC 430 INTERNATIONAL ORGANIZATIONS.**  
A study of international organizations such as the United Nations and their purposes, structure, activities, and growth. Prereq: 3 credits in sociology or consent of instructor.

**SOC 435 SEX AND SEXUALITY.**  
A study of the institution of sex and sexuality and of the ways in which social and biological factors influence human behavior and thought. Prereq: 3 credits in sociology or consent of instructor.

**SOC 440 COMPARATIVE AND INTERNATIONAL RELATIONS.**  
A study of comparative and international relations. Prereq: 3 credits in sociology or consent of instructor.

**SOC 445 SOCIAL POLICY.**  
An interdisciplinary course designed to introduce students to the conceptual and practical aspects of social policy making. Prereq: 3 credits in sociology or consent of instructor.
SOC 432 RACE AND ETHNIC RELATIONS. (3) Analysis of relationships between racial and ethnic groups and the behavioral product thereof. Sources and consequences of prejudice and discrimination. Situation and prospects of minorities. Strategies of change and tension reduction. Prereq: Six hours of social science or consent of instructor. (Same as AAS 432.)

SOC 434 SOCIAL CLASSES. (3) A systematic treatment of the factors underlying social differentiation and stratification, with particular attention to class and caste; social mobility in American society. Prereq: SOC 101 or consent of instructor.

SOC 435 POWER AND POLITICS IN SOCIETY. (3) Course examines social antecedents and consequences of the distribution of power in society, the institutions in which power is pursued and exercised and the way in which the political arena relates to other institutions. Prereq: Six hours of social science or consent of instructor.

SOC 436 SOCIOLGY OF DEVIANT BEHAVIOR. (3) A systematic examination of the various types of social disorganization with particular emphasis upon the sociological explanation of underlying factors. Prereq: Six hours of social science or consent of instructor.

SOC 437 CRIMINOLOGY. (3) A study of general conditions as to crime and delinquency, of measures of punishment and reform of offenders, of criminal procedure and its possible reform and of measures for the prevention of crime. Prereq: Six hours of social science or consent of instructor.

SOC 438 JUVENILE DELINQUENCY. (3) Studies of the extent, ecological distribution, and cause of delinquency in contemporary American society, including a critical examination of trends and methods of treatment. Prereq: Six hours of social science or consent of instructor.

SOC 439 SPECIAL TOPICS IN CRIME AND DELINQUENCY (Subtitle required). (3) An analysis of issues and problems central to the study of crime, deviance, and social control in society. Topics may include the analysis of law and society, organized crime, the professional criminal, corrections, or substance abuse. May be repeated once for credit under different subtitle. Prereq: Introductory level sociology course plus one of the following: SOC 436, SOC 437, SOC 438G or consent of instructor.

SOC 442G SOCIOLOGY OF WORK AND OCCUPATIONS. (3) An analysis of major occupational categories and their relationships to technological, organizational, and societal conditions. Topics may include studies of worker job search and unemployment, societal attitudes toward work, worker participation and other alternatives to work in bureaucratic settings, labor and management relations, or the nature of the professions in the work force. Prereq: Six hours of social science or consent of instructor.

#SOC 443 SOCIAL CONFLICT AND COOPERATION AT WORK. (3) This course considers the formation of employee and employer forms of representation, negotiation, bargaining, and conflict resolution from a sociological perspective. In any setting, it examines the forms of hidden resistance to management by informal work groups. In unionized settings, it examines the trade union movement, the structure of labor unions, the framework of the National Labor Relations Board, union certification, collective bargaining, grievance handling, and strikes. In non-union settings it examines personnel offices, professional associations, licensing procedures, grievance procedures, employee wages and benefits, Equal Employment opportunity cases, and other forms of conflict resolution. The course also considers industrial relations in other countries around the world. Prereq: Six hours of social science or consent of instructor.

SOC 446 SOCIAL MOVEMENTS. (3) This course is an introduction to the sociology of social movements, acquainting students with the basic concepts and empirical examples from the field. While specific content might vary in response to instructors’ interests and department demands, classical and contemporary models of social movements will be presented. Topics covered can include the historical and social conditions in which movements emerge, change, and fade away, recruitment and mobilization of participants, development of specific strategies and tactics, as well as individual and societal impacts of movement activities. This introduction to the sociology of social movements can incorporate examples from a wide range of social movements and counter-movements (e.g., political, lifestyle, religious). Prereq: Six hours of social science or consent of instructor.

SOC 448 APPLIED SOCIAL PSYCHOLOGY. (3) Application of social-psychological knowledge, both theoretical and empirical, to contemporary social issues. Coverage includes application to such diverse topics as health, education, business, law, and international relations. Prereq: PSY 100. (Same as PST 448.)

SOC 449 SOCIAL PROCESSES AND EFFECTS OF MASS COMMUNICATION. (3) The relationship between the organization of modern society and its communication media. Special emphasis is given the way in which cultural processes and social change have an impact upon the mass media, and upon the way in which the mass media influence cultural processes and social change. The social-psychological bases of communication are studied within a context of theory and research. Prereq: SOC/COM 249 or its equivalent. (Same as COM/EDC 449.)

SOC 451G FOUNDATIONS OF SOCIOLOGICAL THEORY. (3) A survey of the development of scientific and humanistic theories in the study of human social interaction and society from The Enlightenment to the present. Works of theorists such as Durkheim, Marx, Weber and Mead will be considered. Emphasis is on the growth of sociology as a discipline. Required for majors. Prereq: Six hours of social science or consent of instructor.

SOC 452G CONTEMPORARY SOCIAL THEORY. (3) A survey and analysis of the major schools of contemporary sociological theory. Works of major theorists are included. Emphasis is on the conceptual structure of the different theories and the way in which they are applied in contemporary sociological analysis. Prereq: SOC 451G.

SOC 499 TOPICAL SENIOR SEMINAR (Subtitle required). (3) Course is especially designed for seniors. Readings, discussions and papers will focus on current research dealing with selected issues of significance in American society. May be repeated to a maximum of six credits under different subtitles. Prereq: Consent of instructor, senior standing, and one introductory level sociology course.

SOC 501 POPULATION ANALYSIS. (3) Distribution and composition, fertility and mortality, migration, ecological relationships and growth of population. Prereq: Six hours of social science or consent of instructor.

SOC 509 THE U.S. FAMILY IN HISTORICAL PERSPECTIVE. (3) A study of American family experience and values from its preindustrial Anglo-Euro roots to the present. Using an interdisciplinary focus, the course will examine the shifting boundary between family and community and the interaction between domestic life and demographic, religious, and economic influences in American history. Prereq: FAM 353 or SOC 409 or equivalent, or consent of instructor. (Same as FAM 509, HIS 596.)

SOC 517 RURAL SOCIOLOGY. (3) Systematic study of the structure and function of family, informal and locality groups, social strata, religious, educational, political and occupational groups in rural society. Prereq: Six hours of social science or consent of instructor.

SOC 527 SOCIETY AND HEALTH. (3) The study of human behavior in illness and of medicine as a complex form of social organization from historical, cross-cultural and contemporary perspectives. Prereq: Consent of instructor. (Same as BSC 527.)

#SOC 533 SOCIAL ANTHROPOLOGY. (3) A sociological interpretation of the Southern Appalachians, emphasizing the great diversity—social, cultural, economic—in the various parts of this area by study of the major institutions, value orientations, and social and cultural changes affecting both the whole area and its sections. Prereq: Six hours of social science or consent of instructor. (Same as ANT 534.)

SOC 534 THE SOUTHERN APPALACHIANS: A SOCIOLOGICAL INTERPRETATION. (3) A sociological interpretation of the Southern Appalachians, emphasizing the great diversity—social, cultural, economic—in the various parts of this area by study of the major institutions, value orientations, and social and cultural changes affecting both the whole area and its sections. Prereq: Six hours of social science or consent of instructor. (Same as BSC 546.)

SOC 542 HUMAN RELATIONS IN ADMINISTRATION OF ORGANIZATIONS. (3) Sociological and social psychological analysis of social structure and environment, leadership, power, authority, decision making, communication, satisfaction, and stress in organizational and administrative activity. Prereq: Six hours of social science or consent of instructor.

SOC 546 SOCIAL FACTORS IN MENTAL HEALTH. (3) The significance of social, psychological and cultural factors in the recognition and course of mental health problems; the organization of mental health services in society. Prereq: Consent of instructor. (Same as BSC 546.)

SOC 547 SOCIAL AND PSYCHOLOGICAL ASPECTS OF APPAREL. (3) An advanced study of the social, psychological factors which influence apparel and apparel use with particular emphasis on research. Prereq: HET 247 for majors only. Non-majors: three hours in sociology or anthropology and three hours in psychology. (Same as DMT 547.)
SOC 555 GEOGRAPHIC INFORMATION SYSTEMS AND LANDSCAPE ANALYSIS. (3)
An introduction to the concepts and methods of compilation, management, analysis, and display of spatially-referenced data. Lectures will be complemented with computer based laboratory exercises. Lecture, two hours; laboratory, four hours per week. Prereq: Fourth/fifth year LA major, junior/senior, or graduate student, CS 101, FOR 200 or GEO 415, or permission of instructor. (Same as LA 855/NRC 555.)

SOC 556 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS) AND LANDSCAPE ANALYSIS. (3)
Advance concepts in data base analysis, model development, and ancillary functions in geographic information systems. Lecture, two hours; laboratory, four hours per week. Prereq: LA 855/SOC 555/NRC 555 and either STA 291 or STA 570. (Same as LA 956/NRC 556.)

SOC 565 SPECIAL PROBLEMS IN SOCIOLOGY. (1-3)
Supervised individual study in selected subfields of sociology, population, community, organizations, social attitudes, deviant behavior, and social change among the fields for investigation. May be repeated to a maximum of six credits. Prereq: Six hours of social science and learning contract filed with department chair.

SOC 603 SEMINAR IN TEACHING SOCIOLOGY. (3)
The purpose of this course is to aid the development of student’s teaching styles and strategies. Topics for class readings and discussions include philosophies and theories of teaching as well as specific teaching strategies and techniques. Seminar members each design a course they someday hope to teach, constructing a course syllabus, choosing readings and designing assignments, exercises, and examinations. In addition, seminar members prepare and deliver presentations to the seminar as well as to ongoing undergraduate classes. Prereq: Graduate standing in sociology, or consent of instructor.

SOC 610 PROSEMINAR IN COMPLEX ORGANIZATION. (3)
A systematic examination of the sociological concepts, literature and current developments in the field of complex organizations. Prereq: Consent of instructor.

SOC 622 TOPICS AND METHODS OF EVALUATION. (3)
An examination of a subset of evaluation methods, topics, and problems. An introductory course in the area with minimal emphasis on quantitative methods. The course is designed to: provide a perspective from which evaluation studies may be viewed; and, to provide experiences for those who will learn from or conduct evaluations. Prereq: Consent of instructor, and a basic course in statistics or research. (Same as ANT/EDP/EPE 620.)

SOC 630 PROSEMINAR IN DEVIANT BEHAVIOR. (3)
A systematic examination of the sociological concepts, literature, and current developments in the field of deviant behavior. Prereq: Graduate standing; SOC 436 or equivalent.

SOC 635 SEMINAR IN SOCIAL INEQUALITIES. (3)
This course provides a graduate-level introduction to sociological theory and research on social inequalities and stratification. It includes both classic and contemporary works on topics such as political economy, the state, domination, democracy, work, poverty, welfare, resistance, class, race, ethnicities, and gender. The course serves as a foundational course for graduate students with interests in social inequalities, and is required for Sociology graduate students seeking a specialization in this area. Prereq: SOC 650 or SOC 651 or consent of instructor.

#SOC 636 STRATIFICATION AND MOBILITY. (3)
Examination of the major areas of research in social stratification and mobility. The course is centered primarily around the core readings, both classical and contemporary, of stratification and mobility research. Topics include educational and occupational attainment, occupational status and prestige, inter- and intra-generational occupational mobility, classes, the consequences of stratification, and the role of labor markets, gender, ethnicity, and race in stratification and mobility. A familiarity with statistics or survey research is strongly recommended. Prereq: SOC 635 or consent of instructor.

SOC 637 SOCIOCULTURAL DIMENSIONS OF ECONOMIC DEVELOPMENT. (3)
Examination of social, cultural and economic conditions in lesser developed countries. Discussion of the various socioeconomic and cultural theories of change and developments, and of alternative policies for the world of the future. Considers the possible roles for social scientists in policy formulation and application. Prereq: Six graduate credits in social sciences or consent of instructor. (Same as ANT 637.)

SOC 638 FOOD SYSTEMS AND AGRARIAN CHANGE. (3)
An examination of the way in which the organization of food procurement, distribution, and consumption in developing countries has affected and been affected by agrarian change. Prereq: Consent of instructor. (Same as ANT 638.)

SOC 640 SCIENCE, AGRICULTURE, AND DEVELOPMENT. (3)
An in-depth examination of the interrelations between science, agriculture, and development. Both domestic and international issues are explored. Prereq: Graduate standing in the social or agricultural sciences. (Same as ANT 640.)

SOC 641 GENDER ISSUES IN DEVELOPMENT. (3)
An examination of gender issues in domestic and international development. Prereq: Graduate standing in the social or agricultural sciences or permission of the instructor. (Same as ANT 641.)

#SOC 642 THE SOCIOLOGY OF WORK, OCCUPATIONS AND LABOR MARKETS. (3)
This course examines the theories of work and occupations; the industrial structure of the labor force, the nature of mental and manual labor; the structure of labor markets including underemployment, unemployment, and segmentation; occupational mobility and status attainment; worker resistance and informal groups; worker participation and teamwork; labor and management relations; and state and national legislation regarding work, conflict, safety, and discrimination. Prereq: Graduate standing in sociology or other graduate department.

#SOC 645 TOPICS IN POLITICAL SOCIOLOGY. (3)
This course examines how states, capital, and other relevant social groups interact to produce new or stabilize old frameworks for work or other aspects of society. Its topics may include many different areas including: employee representation; health and safety issues; race and gender discrimination; corporate relocation and the international division of labor. No matter what topic chosen for the course, the basic aspects of political sociology including pluralist, elite, neo-corporatist, and citizenship theories will be covered. Prereq: Graduate standing in sociology or other graduate department.

SOC 646 SOCIAL MOVEMENTS AND SOCIAL CHANGE. (3)
This seminar focuses on literature pertaining to collective, extra-institutional efforts to form new or maintain old forms of social order in the United States and other countries. While specific content might vary in response to instructors’ interests and department demands, attention will be given to such issues as movement emergence, maintenance, and transformation, labor and resource mobilization, social networks, organization cultures, movement identities and ideologies, social problems construction, strategies and tactics development, as well as the relative success of social movement activities. The seminar can include illustrative material from a variety of social movements and counter-movements (e.g., political, lifestyle, religious, etc.). Prereq: Graduate standing in sociology or other graduate department.

SOC 650 CONCEPTS AND THEORIES IN SOCIOLOGY. (3)
Consideration of central conceptual issues underlying the construction of various sociological theories and their explanatory frameworks. A systematic exploration of the development and application of central conceptual frameworks of the discipline. Prereq: Consent of instructor.

SOC 651 SOCIOLOGICAL THEORY IN TRANSITION. (3)
Intensive examination of the ideas and continuing significance of leading nineteenth century sociological theorists. The work of Marx, Weber, Durkheim, and Simmel is given particular attention. Discussion concerns the contents of their writings, the sociohistorical context in which they were developed, and their applicability to contemporary society. Prereq: SOC 650 or consent of instructor.

SOC 653 FAMILIY THEORY. (3)
A survey and critical evaluation of family macro and micro theories. The course will include: (a) a historical perspective on the development of family theory; (b) the prevalent macro theories/conceptual frameworks in use in the field; and (c) current trends in the development of micro, or middle-range, family theories. Prereq: FAM 652. (Same as FAM 653.)

SOC 661 SOCIOLOGY OF EDUCATION. (3)
A study of schooling and education using basic analytic paradigms of sociology. Emphasis on schools as formal organizations and education in a changing, technologically oriented and stratified society. Prereq: SOC 101 or equivalent. (Same as EPE 661.)

SOC 680 METHODS OF SOCIAL INVESTIGATION. (4)
An overview of the various methods and techniques, both quantitative and qualitative, used by sociologists, including experience in the use of various methods. Lecture, three hours; laboratory, two hours per week. Prereq: Six graduate hours in sociology or consent of instructor.

SOC 681 RESEARCH DESIGN AND ANALYSIS. (3)
Problem definition and delimitation, design appropriate to problem and data, and selection of appropriate analysis techniques; critical examination of representative research studies. Prereq: Elementary statistics.
SOC 682 SPECIAL TOPICS IN ADVANCED SOCIOLOGICAL METHODS. (1-3)
A focused treatment of one or more issues, topics, or problems in sociological methods such as time-series analysis, causal analysis, participant observation, conduct of experiments, sociohistorical methods, scale construction, etc. May be repeated to a maximum of nine credits. Prereq: SOC 681 or equivalent.

SOC 684 FARMING SYSTEMS RESEARCH METHODS. (3)
A critical analysis of the concepts, methods, and practices of farming systems research. Design and carry out an FSR project. Prereq: Graduate standing in the social or agricultural sciences. (Same as ANT 684.)

SOC 691 STRUCTURE OF U.S. AGRICULTURE. (3)
This seminar will analyze the structural transformation of U.S. agriculture in the 19th and 20th centuries in the context of sociological theory. Emphasis is given to key historical transitions, changing social relations of production and state policy. Such emphases provide a framework for understanding the historical roots and future prospects for the socioeconomic problems confronting contemporary U.S. agriculture. Prereq: Graduate standing in sociology/agricultural economics or consent of instructor. (Same as AEC 691.)

SOC 730 SPECIAL TOPICS IN DEVIANT BEHAVIOR. (1-3)
A focused treatment of one or more issues, topics, or problems in the field of deviant behavior such as delinquency, sociology of law, criminal justice and corrections, radical criminology, or methodological issues in deviance research. May be repeated to a maximum of nine credits. Prereq: SOC 630 or equivalent or consent of instructor.

SOC 735 TOPICAL SEMINAR IN SOCIAL INEQUALITIES. (3)
Advanced study of topics of current importance in the study of social inequalities and stratification. May be repeated under different subtitles to a maximum of 12 credits. Prereq: SOC 635 or consent of instructor.

SOC 748 MASTER'S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

SOC 749 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

SOC 750 SPECIAL TOPICS IN SOCIAL CHANGE AND DEVELOPMENT. (1-3)
A focused treatment of one or more issues, topics, or problems in the field of social change and development, such as modernization, dependency, the role of science and technology in development, or alternative futures. May be repeated to a maximum of nine credits. Prereq: SOC 650 or equivalent or consent of instructor.

SOC 751 SEMINAR IN SOCIOLOGICAL THEORY. (3)
A survey of major theoretical perspectives in modern sociology, focusing on twentieth century developments in European and American sociological theory. The principal contributions of selected theorists are considered and their role in the establishment of contemporary sociology is assessed. Prereq: SOC 650 or consent of instructor.

SOC 752 SEMINAR IN FAMILY THEORY CONSTRUCTION. (3)
An advanced seminar focusing on the definition, evaluation and construction of family theory. Inductive and deductive theory construction strategies are surveyed, evaluated and applied. Prereq: FAM 652. (Same as FAM 752.)

SOC 766 CONCEPTS IN MEDICAL SOCIOLOGY. (3)
A review of sociological concepts and methods which have been applied to the study of health and medicine; the contributions of medical sociology to general sociological theory and to concepts and research on health-related problems of society. Prereq: Consent of instructor. (Same as BSC 766.)

SOC 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours.

SOC 769 RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE. (0-12)
May be repeated indefinitely.

SOC 772 TOPICAL SEMINAR IN SOCIOLOGY. (3)
Advanced study of topics of current importance in sociology, such as structural strain and social change, game theory, decision processes, communication and power structure. May be repeated under different subtitles to a maximum of 12 credits. Prereq: At least nine hours in the social sciences, preferably in sociology.

SOC 773 TOPICAL SEMINAR. (3)
Analysis of topics of scientific interest in rural sociology, selected from such fields as the following: criticism of research; sociological factors in land use; migration; rural social ecology of the South; highland societies. May be repeated to a maximum of six credits.

SOC 776 SEMINAR IN DEPENDENCY BEHAVIOR. (3)
The course is designed to explore theories of dependency behavior by examining the concept of dependency as it can be applied to the study of various phenomena including alcohol use and abuse; dependence on other psychoactive substances; institutional dependency; dependency in work settings; and poverty and welfare. Prereq: Consent of instructor. (Same as ANT/PSY/BSC 776.)

SOC 777 SEMINAR IN MENTAL ILLNESS CONCEPTS, RESEARCH AND POLICY. (3)
Advanced study of contemporary concepts of mental health and mental illness, and their historical development; major forms of response to mental illness. Prereq: Consent of instructor. (Same as BSC 777.)

SOC 779 TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY. (3)
Each semester some topic in the field of social psychology such as attitudes and beliefs, structure and function of social groups, social determinants of behavior, leadership, and morale will be studied intensively. May be repeated to a maximum of six credits. Prereq: PSY 444G. (Same as PSY 779.)

SOC 780 SPECIAL PROBLEMS IN SOCIOLOGY. (1-6)
May be repeated to a maximum of 10 credits.

SOC 785 COMPARATIVE HEALTH CARE SYSTEMS. (3)
This seminar will focus on concepts, issues, and research pertaining to health care systems in comparative perspective. It will deal with the following questions: (1) What are the core analytical dimensions of a health care system? (2) How do health care systems connect with the other institutional domains of a society, with its value-system, and with its major cultural and historical trends? and (3) Within the health care system, how are the main constituents of modern medicine related to each other? Prereq: Consent of instructor. (Same as BSC 785.)

SOC 790 RESEARCH IN RURAL SOCIOLOGY. (1-3)
Individual graduate research with correlated study of rural social research types and methods. May be repeated for a maximum of six credits.

SOC 792 RESEARCH IN SOCIOLOGY. (1-6)
Individual research and reading in particular fields of sociology, under staff supervision. Open to advanced students who are prepared for intensive study beyond that offered in regular classes in each field. May be repeated to a maximum of 10 hours.

SOC 797 COMMUNITY DEVELOPMENT PRACTICUM. (1-9)
Supervised experiences in the application of sociological concepts and techniques to problems of program development in a community or state agency, organization, or department. Learning contract required. May be repeated to a maximum of 9 credits. Prereq: Approval of the Director of the Community Development Program.

SPANISH

SPANISH

SPANISH

SPI 011 SPANISH READING FOR GRADUATE STUDENTS. (3)
Designed for those graduate students who wish to acquire a rapid reading knowledge of Spanish. Emphasis on rapid vocabulary building, the Spanish idiom, and the verb systems. Lecture, three hours.

SPI 101 ELEMENTARY SPANISH I (spoken approach). (4)
This course is designed to introduce basic modes of communication in Spanish. The emphasis is on everyday language which the students will learn by applying essential grammatical structures to vocabulary. Both listening and reading comprehension are stressed. The textbook provides instructional assignments and self-correctional exercises. Not open to students who have credit for SPI 141.

SPI 102 ELEMENTARY SPANISH II (spoken approach). (4)
A continuation of SPI 101. Not open to students who have credit for SPI 142. Prereq: SPI 101 or consent of the department and placement test.
SPI 115 CULTURE OF MEXICO FOR NON-Spanish SPEAKERS. (3)
A course designed to introduce students to the basic cultural patterns of Mexico through readings and travel. To be offered only during the intersession or summer session in Mexico. Appropriate faculty leadership is provided.

SPI 141 ELEMENTARY SPANISH I (reading approach). (3)
The study of the basic principles of the language through grammar, with emphasis on rapid development of reading and comprehension skills. Offered by correspondence only. Not open to students who have credit for SPI 101.

SPI 142 ELEMENTARY SPANISH II (reading approach). (3)
A continuation of SPI 141. Selected readings. Offered by correspondence only. Not open to students who have credit for SPI 102. Prereq: SPI 141 or consent of department and placement test.

SPI 201 INTERMEDIATE SPANISH III (spoken approach). (3)
Review and reinforcement of grammatical and phonological patterns. Emphasis will be given to developing reading, listening and speaking skills based on contemporary texts. Not open to students who have credit for SPI 241. Prereq: SPI 102 or consent of department and placement test.

SPI 202 INTERMEDIATE SPANISH IV (spoken approach). (3)
Continuation of SPI 201. Not open to students who have credit for SPI 242. Prereq: SPI 201 or consent of department and placement test.

SPI 210 SPANISH COMPOSITION. (3)
This course is designed for Spanish majors and minors and for those students who wish to perfect their knowledge of Spanish grammar. Concentration on more sophisticated structures of Spanish syntax, and further vocabulary expansion. Prereq: SPI 202 or equivalent or consent of chair.

SPI 211 SPANISH CONVERSATION. (3)
Sections limited to no more than 15 students each. Oral-aural practice in the spoken language. Special emphasis placed on the acquisition of idioms and fundamental conversational vocabulary. Prereq: SPI 202 or equivalent or consent of chair.

SPI 215 CULTURE OF MEXICO. (3)
A course designed to introduce students to the basic cultural patterns of Mexico and to improve their oral proficiency in Spanish. To be offered only during the intersession or summer session in Mexico. Appropriate faculty leadership is provided. Prereq: SPI 201 or equivalent or consent of chair. With permission of the chair, SPI 102 may also be considered a prerequisite.

SPI 242 INTERMEDIATE SPANISH IV (reading approach). (3)
A continuation of SPI 241. Several options will be offered, including culture, literature and contemporary problems. Topics for each section to be announced in the Schedule of Classes. Not open to students who have credit for SPI 202. Prereq: SPI 241 or consent of department and placement test.

SPI 261 MASTERPIECES OF HISPANIC LITERATURE IN TRANSLATION. (3)
A study of selected writers of Spain and Latin America from the Middle Ages to the present.

SPI 263 MASTERPIECES OF ITALIAN LITERATURE IN TRANSLATION. (3)
A study of representative Italian writers and their works in a European context, using anthologies and complete texts where necessary.

SPI 302 BUSINESS AND TECHNICAL SPANISH. (3)
A course designed to acquaint the student with Spanish language as used in business, and may include discussion of Spanish vocabulary for the social sciences and technical fields such as agriculture, engineering, medicine, and nursing. Prereq: SPI 210 or equivalent.

SPI 310 STYLISTIC STUDIES IN SPANISH. (3)
Practice in translation of English prose into Spanish, including treatment of advanced grammar and style. Prereq: SPI 210, 211 or equivalent.

SPI 311 ADVANCED SPANISH CONVERSATION. (1)
Intensive practice in oral Spanish, emphasizing refinement of intonation, and idiomatic expression. Designed to increase and maintain oral fluency in Spanish. May be repeated to a maximum of three credits. Not open to native speakers of Spanish. Prereq: SPI 211 or equivalent.

SPI 312 CIVILIZATION OF SPAIN. (3)
This course is designed to acquaint students with Spain’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPI 210 and 211, or consent of instructor.

SPI 314 CIVILIZATION OF SPANISH AMERICA. (3)
This course is designed to acquaint students with Spanish America’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPI 210 and 211, or consent of instructor.

SPI 320 LITERATURE, LIFE AND THOUGHT OF SPAIN. (3)
A study of the literature that reflects the life and thought of Spain from the Middle Ages to the present. Lecture and discussion in Spanish. Prereq: SPI 210 and SPI 211, or consent of instructor.

SPI 322 LITERATURE, LIFE AND THOUGHT OF SPANISH AMERICA. (3)
A study of the literature that reflects the life and thought of Spanish America from the Colonial period to the present. Lecture and discussion in Spanish. Prereq: SPI 210 and SPI 211, or consent of instructor.

SPI 324 THE THEATRE IN SPAIN AND SPANISH AMERICA. (3)

SPI 326 HISPANIC POETRY. (3)
Introduction to Spanish metrics and versification, and the forms and techniques of Hispanic poetry with analysis, explication, and interpretation of poetic texts by major poets from Spain and Spanish America. Conducted primarily in Spanish. Prereq: SPI 210 and 211.

SPI 397 INDEPENDENT WORK IN SPANISH. (3)
May be repeated once. Prereq: Major and standing of 3.0 in the department.

SPI 399 FIELD BASED/COMMUNITY BASED EDUCATION. (1-15)
A community- or field-based experience in Spanish under the supervision of a faculty member. Approval of the Arts and Sciences dean required for credits above six per semester. May be repeated to a maximum of 15 credits. Pass-fail only. Prereq: Permission of the instructor and departmental chairperson; completion of departmental learning agreement.

SPI 400 SPECIAL TOPICS IN HISPANIC LITERATURES AND LANGUAGES (Subtitle required). (3)
Detailed investigation of a given topic, author, or theme. Topics announced the preceding semester. Conducted in Spanish. May be repeated to a maximum of six credits when identified by different subtitles. Prereq: One 300-level Spanish literature course.

SPI 411 ADVANCED SPANISH LANGUAGE. (3)
A course designed to practice language skills at an advanced level. Preparation of oral and written presentations in Spanish. Selected readings will be treated for their language content. Conducted primarily in Spanish. Prereq: SPI 210 and 211, and a 300-level Spanish course.

SPI 434 SPANISH LITERATURE OF THE 20th CENTURY. (3)
A study of the works of the Generation of 1898 and representative works of recent writers. Conducted in Spanish. Prereq: One 300-level Spanish literature course.

SPI 438G LITERATURE OF SOCIAL PROTEST IN SPANISH AMERICA. (3)
Analysis and study of the use of sociopolitical elements in selected works by Spanish-American poets, novelists and dramatists. Conducted in Spanish. Prereq: One 300-level Spanish literature course.

SPI 500 STUDIES IN HISPANIC LITERATURE, LANGUAGE AND CULTURE (Subtitle required). (3)
Intensive study of an author, genre, period, or movement of Hispanic literature, or an aspect of Hispanic linguistics or culture. Taught in Spanish. May be repeated to a maximum of six credits under different subtitles. Prereq: Three credits of Spanish on 300 level, or equivalent.

SPI 501 SPANISH PHONETICS, PRONUNCIATION AND PHONOEMICS. (3)
Introduction to Spanish descriptive linguistics with intensive study of variant speech sounds and established norms in the major cultural areas of the Hispanic world with discussions of the theory and isolation of phonemes. Prereq: SPI 210 and SPI 211, and a 300-500 level Spanish course.

SPI 502 SURVEY OF THE SPANISH LANGUAGE. (3)
The development of the Spanish language from the Vulgar Latin stages to the modern period. Special emphasis is placed on the Spanish of the 12th through the 14th centuries. Representative texts are analyzed. Prereq: SPI 210 and 211, and a 300-500 level Spanish course.
SPI 504 ADVANCED SPANISH GRAMMAR AND COMPOSITION. (3 ea.)
A study of the finer points of Spanish grammar. Prereq: SPI 210 and 211, and a 300-500 level Spanish course.

SPI 506 INTRODUCTION TO COMPARATIVE SPANISH, PORTUGUESE, AND ITALIAN LINGUISTICS. (3)
An introduction to the historical development of Spanish, Portuguese and Italian from a common source, with an emphasis on the comparison of related lexical, phonological and morphological items. Prereq: Reading knowledge of Spanish or Italian (fourth semester of course work).

SPI 512 SPANISH CULTURE THROUGH THE 17TH CENTURY. (3)
A study of the major historical, social, cultural, and intellectual movements in Spain from the Middle Ages through the Golden Age. Prereq: Three credits of Spanish on the 300 level, or equivalent.

SPI 513 MODERN SPANISH CULTURE. (3)
A study of the historical, social, cultural, and intellectual trends in Spain from 1700 to the present. Prereq: Three credits of Spanish on the 300 level or equivalent.

SPI 514 STUDIES IN SPANISH AMERICAN CULTURE. (3)
A study of the major historical, social, cultural, and intellectual movements in Spanish America from pre-Columbian times to the present. Prereq: Three credits of Spanish on 300 level, or equivalent.

SPI 518 HISPANIC FILM. (3)
A history of Spanish and Latin American film from the beginnings to the present, emphasizing the political, social, economic and cultural contexts of the Hispanic world. Viewing of films (in Spanish) outside of class is required. Class taught in Spanish. Prereq: Three credits of Spanish on the 300-500 level or equivalent.

SPI 522 SURVEY OF THE COMEDIA. (3)
A survey of the masterworks of Lope de Vega and his contemporaries. Prereq: One 300-level Spanish literature course.

SPI 523 THE GENERATION OF 1898. (3)
Studies in intellectual thought, literary work and special contributions of the writers of the generation of 1898. Prereq: One 300-level Spanish literature course.

SPI 541 SPANISH AMERICAN SHORT STORY. (3)
A study of the Spanish-American short story throughout its development. Prereq: One 300-level Spanish literature course.

SPI 553 TEACHING OF SPANISH. (3)
The course is designed for teachers and prospective teachers of modern foreign languages, with emphasis on Spanish. Modern methodology, theory and practice of language pedagogy.

SPI 603 CRITICAL AND HISTORICAL PERSPECTIVES ON MEDIEVAL, RENAISSANCE AND GOLDEN AGE SPANISH LITERATURE. (3)
Studies of selected Medieval and Golden Age Spanish works in light of their literary, historical, and cultural importance. Emphasis on critical approaches to text.

SPI 604 CRITICAL AND HISTORICAL PERSPECTIVES ON MODERN SPANISH LITERATURE. (3)
Studies of selected modern Spanish works (18th century to the present) in light of their literary, historical, and cultural importance. Emphasis on critical approaches to text.

SPI 605 CRITICAL AND HISTORICAL PERSPECTIVES ON SPANISH AMERICAN LITERATURE. (3)
Studies of selected Spanish American works (Colonial Period to the present) in light of their literary, historical, and cultural importance. Emphasis on critical approaches to text.

SPI 611 MEDIEVAL SPANISH LITERATURE I. (3)
A survey of Medieval Spanish literature from the beginning to the end of the 13th century. (SPI 612 is intended to cover the 14th and 15th centuries.)

SPI 612 MEDIEVAL SPANISH LITERATURE II. (3)
A survey of Medieval Spanish literature of the 14th and 15th centuries.

SPI 613 SPANISH EPIC AND LONG NARRATIVE POETRY. (3)
Study of the foundations of Spanish oral epic tradition with references to its parallels in other national literatures and its influences on other genres. Analysis of the Poemas de Mio Cid, with readings in the important cycles of Spanish epicry and long narrative poetry through the 16th century.

SPI 615 SPANISH POETRY OF THE 13TH, 14TH AND 15TH CENTURIES. (3)
Development of lyric poetry from the earliest beginnings to the 15th Century. The hachas, Galician-Portuguese, lyric, sacred lyric and the poets of the concioneros, exclusive of the ballad.

SPI 617 SPANISH MEDIEVAL AND RENAISSANCE DRAMA. (3)
Readings, lectures and discussions on the origin of the Spanish vernacular drama and its growth through the 16th century.

SPI 622 CERVANTES I. (3)
A study of Don Quixote: collateral readings in Cervantine scholarship and criticism.

SPI 625 MYSTIC AND ASCETIC WRITERS OF THE SIXTEENTH AND SEVENTEENTH CENTURIES. (3)
A survey of ascetic and mystic writers including among others: Juan de Avila, Luis de León, Luis de Granada, Santa Teresa, San Juan de la Cruz.

SPI 626 LOPE DE VEGA AND TIRSO DE MOLINA. (3)
Selected dramatic and nondramatic works of Lope de Vega and Tirso de Molina.

SPI 628 THE THEATRE OF CALDERON DE LA BARCA. (3)
The dramatic works and techniques of Calderón de la Barca.

SPI 629 SPANISH POETRY OF THE 16TH AND 17TH CENTURIES. (3)
An examination of several schools and forms of poetry, both lyric and narrative, in this period.

SPI 631 THE ROMANTIC MOVEMENT IN SPAIN. (3)
An examination of the meaning of the term “romanticism,” with a study of representative Spanish works of the Romantic period. Prereq: Graduate standing.

SPI 632 SPANISH DRAMA FROM THE GENERATION OF 1898 TO THE PRESENT. (3)
Representative works of the major dramatists and dramatic trends from Benavente and his contemporaries through García Lorca, Casanova and Buero Vallejo.

SPI 633 THE SPANISH NOVEL OF THE 19TH CENTURY. (3)
A study of the major Spanish novelists of the 19th century; particular attention to the aims and techniques of literary realism and naturalism.

SPI 634 PROSE FICTION FROM THE GENERATION OF 1898 TO THE PRESENT. (3)
Studies in most important novels and short stories of the later part of the modern period, produced from 1930 to the present.

SPI 636 SPANISH POETRY FROM THE EIGHTEENTH CENTURY THROUGH THE GENERATION OF 1898. (3)
A study of the major poets, trends and approaches to Spanish poetry from the Neoclassic period through Unamuno and Antonio Machado. Prereq: Graduate standing.

SPI 637 SPANISH POETRY FROM THE GENERATION OF 1927 TO THE PRESENT. (3)
Studies of the poetry of the later part of the modern period, from Jiménez, Salinas and Guillén to current poets. Prereq: Graduate standing.

SPI 641 SPANISH AMERICAN DRAMA. (3)
A study of dramatic production in Spanish America from the missionary theater to the present, accentuating the work of later authors beginning with Florencio Sánchez.

SPI 642 SPANISH AMERICAN POETRY: COLONIAL PERIOD TO INDEPENDENCE. (3)
Representative works of the principal poets from the Colonial Period through the Neo-Classical.

SPI 643 SPANISH AMERICAN POETRY: 1800-1910. (3)
Poetry from Romanticism through Modernism.

SPI 644 SPANISH AMERICAN POETRY: 1910 TO PRESENT. (3)
Post-Modernism, the Vanguardia, and contemporary poets.

SPI 645 SPANISH AMERICAN NOVEL: 1800-1910. (3)
The major writers from Romanticism through Modernism.

SPI 646 SPANISH AMERICAN NOVEL: 1910-1940. (3)
The novel of the Mexican Revolution, the criollistas, indigenistas, novelas gauchescas, and the psychological novel.
SPI 648 LITERARY CURRENTS IN CONTEMPORARY SPANISH AMERICAN FICTION. (3)
An examination of the outstanding works of Spanish American authors during the past ten years, with emphasis on literary innovations and new currents in the novel, short story, poetry and drama.

SPI 649 SPANISH AMERICAN ESSAY. (3)
A comprehensive study of the principal currents of thought in the Spanish American essay, with special attention to the americanistas.

SPI 651 BIBLIOGRAPHY AND METHODS OF RESEARCH. (3)
Investigation of Spanish bibliography and modern methods of research designed to provide guidance to the graduate student leading to an understanding of research methods and publication. Taught by various members of the staff, with each member dealing with his own specialty.

SPI 748 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

SPI 749 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

SPI 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours.

SPI 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (0-12)
May be repeated indefinitely.

SPI 770 SEMINAR IN SPANISH STUDIES. (3)
A seminar designed to provide intensive study of a literary, scholarly, or intellectual problem of Spanish letters not covered as such in any of the above listed offerings. May be repeated to a maximum of six credits. Prereq: 21 semester hours of college Spanish.

SPI 772 SEMINAR IN MEDIEVAL SPANISH LITERATURE. (3)
Special and intensive study of a single problem in medieval Spanish literature. May be repeated to a maximum of six credits. Prereq: SPI 601-602 or equivalent.

SPI 775 SEMINAR IN MODERN SPANISH LITERATURE. (3)
Special and intensive study of a specific problem or area in modern Spanish literature.

SPI 776 SEMINAR IN SPANISH AMERICAN LITERATURE. (3)
Special and intensive study of particular areas of Spanish American literature. May be repeated to a maximum of six credits.

SPI 782 SPECIAL STUDIES IN SPANISH. (1-3)
Selected studies and investigations in the Spanish language and Hispanic literature, permitting the student to work in areas of special interest and providing opportunity for original endeavor. May be repeated to a maximum of six credits. Prereq: Graduate standing.

ITALIAN

SPI 191 ELEMENTARY ITALIAN. (3)
A study of the grammar and composition of Italian.

SPI 192 ELEMENTARY ITALIAN. (3)

SPI 263 MASTERPIECES OF ITALIAN LITERATURE IN TRANSLATION. (3)
A study of representative Italian writers and their works in a European context, using anthologies and complete texts where necessary.

SPI 291 INTERMEDIATE ITALIAN. (3)
Review of grammatical principles and readings of selected Italian works. Prereq: SPI 192.

SPI 292 INTERMEDIATE ITALIAN. (3)

SPI 295 ITALIAN CONVERSATION AND COMPOSITION. (3)
Italian conversation and composition. Prereq: SPI 292 or equivalent.

SPI 296 ITALIAN CIVILIZATION. (3)
A study of Italian civilization, with emphasis on historical and cultural developments. Prereq: SPI 292 or equivalent.

SPI 395 INDEPENDENT STUDIES IN ITALIAN. (3)
Directed study in Italian literature, culture, and linguistics. May be repeated once. Prereq: 3.0 standing in the department and consent of instructor.

SPI 417 ADVANCED ITALIAN LANGUAGE. (3)
A course designed to practice language skills at an advanced level. Both oral and written presentations are required. Readings of contemporary Italian prose will be selected to illustrate grammatical and stylistic concerns and to stimulate discussion. Prereq: SPI 295 or SPI 296.

SPI 443G SURVEY OF ITALIAN LITERATURE I. (3)
A survey of Italian literature from its beginnings to the 17th century. Prereq: SPI 292.

SPI 444G SURVEY OF ITALIAN LITERATURE II. (3)
A survey of Italian literature from the 17th century to the present. Prereq: SPI 292.

SPI 566 LITERATURE OF THE ITALIAN RENAISSANCE. (3)
A study of the major literary trends and figures of the Italian Renaissance, from the literary and humanistic successors of Petrarch and Boccaccio to the writers of the Cinquecento. Prereq: SPI 543 or 544 or consent of instructor.

SPI 569 TOPICS IN ITALIAN LANGUAGE, LITERATURE, OR CULTURE (Subtitle required). (3)
Intensive study of an author, genre, period or movement of Italian literature or an aspect of Italian language or culture. May be repeated once under a different subtitle. Prereq: Variable; given when topic identified.

SPI 593 MODERN ITALIAN LITERATURE IN TRANSLATION. (3)
A study of the major trends and figures of 19th and 20th century Italian literature.
STA 281 PROBABILITY AND STATISTICS USING INTERACTIVE COMPUTER TECHNIQUES. (3)
The role of chance in experimental outcomes. Simple discrete and continuous probability distributions; combinatorics; moments and expectations; normal and binomial distributions; computer simulation and simple Monte Carlo methods. Descriptive statistics, charts, and graphs, and elements of statistical inference using interactive statistical packages (e.g., SCSS and/or MINITAB). Prereq: CS 150, CS 102, or CS 221; Coreq: MA 114, MA 132, or MA 118.

STA 291 STATISTICAL METHOD. (3)
Introduction to principles of statistics. Statistical description of sample data including frequency distributions, measures of central tendency, and measures of dispersion. Theoretical distributions, statistical estimation, and hypothesis testing. Introduction to simple linear regression and correlation. Prereq: MA 113, MA 123, or MA 131 or equivalent.

STA 292 DESCRIPTIVE STATISTICS. (1)
Graphical and tabular description of data; measures of central tendency and variation, scattergrams, correlation and best-fitting lines; index numbers. Prereq: MA 113, MA 123, or MA 131, or consent of instructor.

STA 293 PROBABILITY. (1)
Experiments and sample spaces; elementary and conditional probability; counting principles; random variables; distribution and expectation; normal and binomial distributions. Prereq: STA 292.

STA 294 SAMPLING AND INFERENCE. (1)
Sampling; sampling behavior of X and S²; confidence intervals and tests of hypotheses about the mean and variance of a normal population: the X² and t-distributions. Prereq: STA 292 and 293.

STA 320 INTRODUCTORY PROBABILITY. (3)
Set theory; fundamental concepts of probability, including conditional and marginal probability; random variables and probability distributions (discrete and continuous); expected values and moments; moment-generating and characteristic functions; random experiments; distributions of random variables and functions of random variables; limit theorems. Prereq: MA 213 or equivalent. (Same as MA 320.)

STA 321 BASIC STATISTICAL THEORY I. (3)
Simple random sampling; point and interval estimation; hypothesis testing. Prereq: STA/MA 320.

#STA 335 DATA ANALYSIS FOR PHYSICISTS. (1)
An integrated lecture and demonstration computational laboratory course in the theory and techniques of data analysis and error propagation. An emphasis is given to applications common to physical sciences: curve fitting, statistical methods of data analysis, systematic uncertainties, and both independent and correlated errors in several variables. Prereq: PHY 242. (Same as PHY 335.)

STA 381 INTRODUCTION TO ENGINEERING STATISTICS. (3)
Probability; population and sample distributions; sampling; hypothesis testing; regression on one variable; quality control. Prereq: MA 213.

STA 417G PRINCIPLES OF OPERATIONS RESEARCH II. (3)
A continuation of MA 416G with topics selected from stochastic models, decision making under uncertainty, inventory models with random demand, waiting time models and decision problems. Prereq: CS/MA 416G and MA/STA 320, or consent of instructor. (Same as MA 417G.)

STA 422G BASIC STATISTICAL THEORY II. (3)
Theory of least squares; regression; analysis of variance and covariance; experimental design models; factorial experiments; variance component models. Prereq: STA 321.

STA 424G BASIC PROBABILITY AND DISTRIBUTION THEORY. (3)
Basic set theory and probability; random variables; discrete and continuous probability distributions; expected values, moments and moment-generating functions; distributions of functions of random variables; limiting distributions. Prereq: MA 114.

STA 503 INTRODUCTION TO STATISTICAL METHODS. (4)
Summary statistics, graphical methods, point and interval estimation, hypothesis testing, experimental design, simple and multiple regression, covariance and ANOVA as a special case of regression, categorical data analysis. Lecture, three hours; laboratory, two hours per week. Prereq: MA 322.

STA 515 MATHEMATICAL PROGRAMMING AND EXTENSIONS. (3)
Mathematical and computational aspects of linear programming, large scale structures, quadratic programming, complementary pivoting, introduction to nonlinear programming. Applications to engineering and economics. Additional topics selected in geometrical programming, stochastic programming. Prereq: A course in linear algebra or consent of instructor. (Same as MA 515.)

STA 524 PROBABILITY. (3)
Sample space, random variables, distribution functions, conditional probability and independence, expectation, combinatorial analysis, generating functions, convergence of random variables, characteristic functions, laws of large numbers, central limit theorem and its applications. Prereq: MA 432G or 471G or consent of instructor. (Same as OR 524.)

STA 525 INTRODUCTORY STATISTICAL INFERENCE. (3)
Simple random sampling, statistics and their sampling distributions, sampling distributions for normal populations; concepts of loss and risk functions; Bayes and minimax inference procedures; point and interval estimation; hypothesis testing; introduction to nonparametric tests; regression and correlation. Prereq: STA 320 or STA 524 or STA 424G. (Same as OR 525.)

STA 531 THEORY OF PROBABILITY. (3)
Probability, spaces, conditional probability, law of total probability, Bayes Theorem, independence, random variables and their distributions, multivariate distributions, transformations, moment generating functions, Chebyshev’s inequality, modes of convergence, Slutsky’s Theorem, Borel-Cantelli, Law of large numbers, Central Theorem. Must be taken concurrently with STA 532. Prereq: MA 471G.

STA 532 THEORY OF STATISTICAL INFERENCE I. (3)
Sampling distributions, sufficiency, exponential families, likelihood and information, Consistency, efficiency, point and interval estimation, Neyman-Pearson Lemma, Likelihood ratio. Must be taken concurrently with STA 531. Prereq: MA 471G.

STA 570 BASIC STATISTICAL ANALYSIS. (4)
Primarily in biological, behavioral and social sciences. Introduction to methods of analyzing data from experiments and surveys; the role of statistics in research, statistical concepts and models; probability and distribution functions; estimation; hypothesis testing; regression and correlation; analysis of single and multiple classification models; analysis of categorical data. Lecture, three hours; laboratory, two hours. Prereq: MA 109 or equivalent. For graduate students; undergraduates must have consent of instructor.

STA 600 Communicating in Statistics. (0)
Pedagogical skills for teaching assistants in undergraduate statistics courses and effective communication skills for professional statisticians. Topics include: basic teaching techniques, use of writing assignments to increase understanding of statistical concepts, writing and grading effective exams, and recording and analyzing grades with the aid of software. Videotaped sessions will be conducted and critiqued. May be repeated a maximum of three times. Prereq: STAT major.

STA 601 THEORY OF STATISTICAL INFERENCE II. (3)
Elements of decision theory; properties of estimators; point and interval estimation; hypothesis testing; sequential testing; inference from categorical data; linear regression as conditional expectation; multivariate normal distribution. Prereq: STA 531.
STA 603 INTRODUCTION TO LINEAR MODELS AND EXPERIMENTAL DESIGN. (4)
Review of topics from matrix and vector algebra; multivariate normal distribution and its properties; distribution of quadratic forms. The noncentral χ², F, and T distributions; the general linear model and related inference; elementary computational methods; applications of the theory—experimental design and covariance analysis; a. One-Way Layout, CRD, b. Two-Way Layout, RCBD, c. Latin Squares - (1) Crossover designs, (2) Reversal, Double-reversal designs, (3) Other related designs, d. Factorials. Prereq: STA 503, STA 531. Coreq: STA 601.

STA 612 SEQUENTIAL ANALYSIS. (3)

STA 616 DESIGN AND ANALYSIS OF SAMPLE SURVEYS. (3)
Sampling from finite populations; estimation of sample size; stratification; ratio and regression estimators; systematic sampling; cluster sampling; multistage sampling (selection of sampling units with probability proportional to size); double sampling; response errors. Prereq: STA 531 or consent of instructor.

STA 619 PROBLEMS SEMINAR IN OPERATIONS RESEARCH. (3)
In this course the student is exposed to the art of applying the tools of operations research to "real world" problems. The seminar is generally conducted by a group of faculty members from the various disciplines to which operations research is applicable. Prereq: MA 617 and STA 525 or consent of instructor. (Same as EE 619 and MA 613.)

STA 621 NONPARAMETRIC INERENCE. (3)
Estimation and testing when the functional form of the population distribution is unknown; rank and sign tests; tests based on permutations of observations; power of nonparametric tests; optimum nonparametric tests and estimators. Prereq: STA 601.

STA 624 APPLIED STOCHASTIC PROCESSES. (3)
Definition and classification of stochastic processes, renewal theory and applications, Markov chains, continuous time Markov chains, queuing theory, epidemic processes, Gaussian processes. Prereq: STA 524 or consent of instructor. (Same as OR 624.)

STA 626 TIME SERIES ANALYSIS. (3)
Time series and stochastic processes, auto-correlation functions and spectral properties of stationary processes; linear models for stationary processes, moving average, autoregressive and mixed autoregressive-moving average processes; linear nonstationary models, minimum mean square error forecasts and their properties; model identification, estimation and diagnostic checking. Prereq: STA 422G or equivalent. (Same as ECO 626.)

STA 635 SURVIVABILITY AND LIFE TESTING. (3)

STA 643 ADVANCED EXPERIMENTAL DESIGN. (3)
Advanced topics in analyses of incomplete block designs; confounding and change-over designs; data collected at several places and times; principles of design construction. Prereq: STA 603.

STA 644 ADVANCED LINEAR AND NONLINEAR MODELS. (3)

STA 661 MULTIVARIATE ANALYSIS I. (3)
Characterization and properties of the multivariate normal distribution, random samples from this distribution; multivariate analysis of variance, related distribution theory; factor analysis. Prereq: STA 603.

STA 665 ANALYSIS OF CATEGORICAL DATA. (3)

STA 671 REGRESSION AND CORRELATION. (2)
Simple linear regression, elementary matrix algebra and its application to simple linear regression; general linear model, multiple regression, analysis of variance tables, testing of subhypotheses, nonlinear regression, step-wise regression; partial and multiple correlation. Emphasis upon use of computer library routines; other special topics according to the interests of the class. Lecture, three hours per week; laboratory, two hours per week for two and a half weeks. Offered the first or second half of each semester. Prereq: STA 570 or EDP 557.

STA 672 DESIGN AND ANALYSIS OF EXPERIMENTS. (2)
Review of one-way analysis of variance; planned and unplanned individual comparisons, including contrasts and orthogonal polynomials; factorial experiments; completely randomized, randomized block, Latin square, and split-plot designs: relative efficiency, expected mean squares; multiple regression analysis for balanced and unbalanced experiments, analysis of covariance. Lecture, three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 671.

STA 673 DISTRIBUTION-FREE STATISTICAL INFERENCE AND ANALYSIS OF CATEGORICAL DATA. (2)
Inference for population quantiles, sign tests, Wilcoxon tests, Kruskal-Wallis and Friedman tests, Kendall and Spearman rank correlation. Goodness-of-fit tests for completely and partially specified distributions, r×c contingency tables, McNemar and Cochran's Q tests for matched proportions; three-dimensional tables and tests of partial and multiple associations. Lecture, three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 570 or EDP 557.

STA 675 SURVEY SAMPLING. (2)
Simple random sampling and stratified random sampling, ratio and regression estimators, cluster sampling, systemic sampling, and multi-stage sampling. Specific problems associated with running a survey: non-response, call-backs, questionnaire construction, mail questionnaires, and area sampling. Lecture, three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 570 or EDP 557.

STA 676 QUANTITATIVE INHERITANCE IN PLANT POPULATIONS. (3)
After a brief review of population genetics theory, the course is divided into two sections which cover methods of estimating genetic variances and selection methods in population improvement. The course will focus on handling and interpretation of actual data sets through data analysis and discussion of current literature. Prereq: STA 570, STA 671, STA 672, and ASC 662. (Same as PLS 676.)

STA 677 APPLIED MULTIVARIATE METHODS. (3)
Survey of multivariate statistical techniques. The multivariate normal distribution; the general linear model; general procedures for parameter estimation and hypothesis testing in the multivariate case; Hotelling's T²; multivariate analysis of variance and covariance; structural models for the covariance matrix; utilization of existing computer programs. Prereq: STA 671 and 672, and a knowledge of linear algebra equivalent to MA 262.

STA 679 DESIGN AND ANALYSIS OF EXPERIMENTS II. (3)

STA 690 SEMINAR IN STATISTICS. (1)
May be repeated to a maximum of three credits.

STA 691 SPECIAL TOPICS IN THE PLANNING AND ANALYSIS OF EXPERIMENTS (Subtitle required). (1-3)
Place of statistics in experimentation; topics in experimental design; response surfaces; departures from usual assumptions in analysis of variance; other selected topics. May be repeated to a maximum of nine credits. Prereq: STA 603 or consent of instructor.

STA 692 STATISTICAL CONSULTING. (3)
Basic principles of statistical consulting including how to manage a consulting session, how to formulate and solve problems and how to express results both orally and in writing. Students will be expected to analyze data from a current consulting project. Lecture, two hours; laboratory, two hours per week. Coreq: STA 643 or 644 or consent of instructor.

STA 695 SPECIAL TOPICS IN STATISTICAL THEORY (Subtitle required). (1-3)
To be selected by staff. May be repeated to a maximum of nine credits. Prereq: STA 601.
### STA 701 ADVANCED STATISTICAL INFERENCE I.

Basic concepts of decision theory, sufficiency and completeness; completeness of multivariate parametric family; unbiasedness and invariance of decision rules; Bayes, minimax and invariant estimators; testing of hypotheses and optimality properties. Prereq: MA 571 and STA 601.

### STA 702 ADVANCED STATISTICAL INFERENCE II.

UMP and UMP unbiased tests for multiparametric exponential families; locally best tests; invariance and permutation tests; UMP invariant tests for linear hypotheses; asymptotic aspects of classical statistics, ML estimation and concepts of efficiency; sequential probability ratio test; confidence set, UMA unbiased and invariance confidence sets. Prereq: STA 701.

### STA 703 ADVANCED PROBABILITY.

Probability spaces, extension theorem, random variables; independence, conditional probability, conditional expectation; laws of large numbers, law of the iterated logarithm; convergence in distribution; characteristic functions; central limit theorems; martingales. Prereq: MA 571 and STA 524 or consent of instructor.

### STA 704 ADVANCED PROBABILITY - STOCHASTIC PROCESSES.

Random functions; jump Markov processes; processes with independent increments; stationary stochastic processes; diffusion processes; limit theorems; applications of stochastic processes. Prereq: STA 703.

### STA 715 READINGS IN STATISTICS AND PROBABILITY

(Subtitle required) 
Supervised reading and discussion at the graduate level, of a selected bibliography of the essential literature of various special topics. May be repeated to a maximum of nine credits. Coreq: STA 702 or STA 704, and consent of instructor.

### STA 748 MASTER'S THESIS RESEARCH.

Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

### STA 749 DISSERTATION RESEARCH.

Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

### STA 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE.

May be repeated to a maximum of 12 hours.

### STA 769 RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE.

May be repeated indefinitely.

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### SW Social Work

#### SW 124 INTRODUCTION TO SOCIAL SERVICES.

Introduction to social welfare concepts and philosophies. Examination of the profession of social work and its philosophy and value commitments within social welfare. Public and private service delivery systems will be studied. Required of social work majors and recommended it be taken the first year. Two class hours and two laboratory hours per week.

#### SW 222 DEVELOPMENT OF SOCIAL WELFARE.

Study of the cultural traditions, value orientations, and political and economic forces which have contributed to the emergence of present social welfare policies and systems in the United States. Required of social work majors and open to all others.

#### SW 300 SOCIAL WORK PRACTICE I.

An introduction to generalist social work practice theory, a study of skills in professional practice with individuals and families, and an examination of social work functions in the direct delivery of social services. Special attention is paid to the NASW Code of Ethics and to the social worker’s obligations towards populations-at-risk. Class includes four hours per week of laboratory in health or welfare settings, and three lecture hours. Prereq: SW 124. Open only to social work majors.

#### SW 320 GLOBAL POVERTY: RESPONSES ACROSS CULTURES.

An examination of poverty in various non-Western cultures. The course will cover the nature, scope, and distribution of poverty, definitions of poverty, common characteristics of the poor, as well as cultural traditions and follow ups which contribute to the problem. Social welfare responses and humanitarian efforts which address the problem are examined.

#### SW 322 SOCIAL WORK AND SOCIOLOGICAL PERSPECTIVES.

Designed for transfer students of junior rank. Study of social welfare development, social work philosophy and value commitment and with an examination of social service agencies and programs. Lecture, three hours; laboratory, two hours; options of agency visitation, group experiences, social service. Not open to those having SW 124 and 222. Prereq: For majors only.

*SW 354 THE FAMILY IN CROSS-CULTURAL PERSPECTIVE.

This course approaches the study of the family from a comparative perspective, emphasizing cross-cultural variability in the structure and function of family. Kinship, household formation, sex roles, and socialization are examined in the context of the family, as well as patterns of interaction, personality formation, and family pathology. Prereq: Introductory social science course. (Same as FAM/SOC 354.)

#### SW 395 INDEPENDENT WORK.

Organized study research and/or tutorial work focused on special issues or problems. May be repeated to a maximum of four credits. Prereq: Major, standing of 3.0 overall GPA, or consent of dean, and consent of adviser and instructor.

#### SW 400 SOCIAL WORK PRACTICE II.

Emphasizing an ecological and systems framework, the course explores theories and practice approaches appropriate for work with groups, organizations, and community systems. The impact of discrimination and oppression on populations-at-risk is discussed, along with problem-solving and interventive strategies. The ethical and legal strategies of the generalist practitioner are studied. Prereq: SW 300. Open only to social work majors.
SW 401 PRACTICE WITH CHILDREN AND FAMILIES. (3)
The critical examination of social work practice with child and families with emphasis on social service interventions to strengthen family life. Prereq: SW 354.

SW 420 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT. (3)
This course provides the social work student with knowledge of behavioral science at the individual, family, small group, community, and societal levels in the context of diversity of ethnic background, race, gender, social class, sexual orientation and culture in a pluralistic society. The course will deal with the interrelatedness of the biological, psychological, social, cultural and environmental factors influencing human behavior, and their relevance and application to generalist social work practice. Theoretical approaches are presented to describe, explain, and predict human behavior and development, as well as to inform and guide social work practice. A variety of learning experiences are provided students, including lecture, small group discussion, observational exercises, and case analyses. The course utilizes social work knowledge as well as sources from other fields, including human development, personality, family theory, small groups, organizations, communities, and cultural diversity. The ecological perspective provides the unifying framework for the integration of these areas of study. Prereq: Open to social work majors.

SW 421 SOCIALIZATION AND RESOCIALIZATION GROUPS IN PRACTICE. (3)
This course develops social work practice skills for conducting socialization and resocialization groups. Leadership activities include member selection, contracting, direct and indirect change techniques, and terminating. Application is made to a variety of settings and member characteristics. Prereq: Social work majors or consent of instructor.

SW 430 SOCIAL WELFARE POLICY: THEORY AND IMPLEMENTATION. (3)
The study and demonstration of different analytic models utilized in analysis of social welfare policy. The course also introduces content in the areas of organizational theory, management tools necessary to the understanding of implementation and evaluation of social welfare policy. Prereq: SW 222 or 322. Open only to social work majors.

SW 444 EDUCATIONAL PRACTICUM I. (8)
Introduction to social work practicum under faculty direction in a Teaching-Learning Center. Students will learn to apply knowledge from prerequisite and concurrent courses in experiences which utilize social work practice skills with emphasis on individuals, families and small groups, toward the goals of prevention, restoration, and enhancement of social functioning. Includes 24 hours per week of seminar and experiential learning. Prereq: SW 300 and SW 420.

SW 445 EDUCATIONAL PRACTICUM II. (8)
This course continues the process of social work practicum under faculty direction in a Teaching-Learning Center. Students will continue to apply knowledge from prerequisite and concurrent courses in experiences which utilize social work practice skills with individuals, families, and small groups as well as with organizations and communities toward the goals of prevention, restoration, and enhancement of social functioning. Includes 24 hours per week of seminar and experiential learning. Prereq: SW 444. Prereq or concurrent: SW 400.

SW 450 SOCIAL WORK RESEARCH. (3)
An introductory study of the processes of research in building social work knowledge and developing effective social work practice. Prereq: A basic course in statistics. Open only to social work majors.

SW 470 SENIOR SEMINAR. (3)
An integrative professional seminar for senior majors in social work, usually taken in the last semester of course work. Social work issues of an educational, professional and practice nature are examined. Prereq: SW 445 or concurrent. Open only to social work majors.

SW 477 FIELD EXPERIENCE FOR NONMAJORS. (3-6)
Observation and participation in a wide variety of agency settings in the delivery of social services and problem solving. Lecture, 1 to 2 hours; laboratory, 9-18 hours per week. Prereq: Consent of instructor.

SW 505 CHILD WELFARE SERVICES. (2-3)
A study of community and national programs for child care and protection, including aid to dependent children and other social security services.

SW 510 MENTAL HEALTH KNOWLEDGE FOR THE SOCIAL PROFESSIONS. (2-3)
An analysis of personality development, behavior patterns, and social structural factors with special reference to mental health, its service delivery system, and implications for practice in the social professions.

SW 513 INTEGRATED SERVICES FOR THE HANDICAPPED. (3)
This course will focus on interdisciplinary teamwork practices and integrated services for individuals with handicapping conditions. A variety of interdisciplinary models of service delivery will be reviewed and experiential opportunities will be provided.

SW 514 ALCOHOLISM AND PROBLEM DRINKING. (2-3)
This course will examine traditional and emerging concepts of alcoholism and problem drinking with special attention to problems in definition. The contributions of recent research to our understanding of risk factors associated with various populations will be reviewed. Selected strategies for identification of and intervention into alcoholism and problem drinking will be discussed with particular attention to the unique problems and needs of racial minorities, youth, female, and other populations.

SW 515 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES I. (3)
This course is designed to prepare rehabilitation counselors and social workers to become interpreters of medical information concerning major disabilities and to provide an understanding of the psychosocial factors encountered by the disabled. Focus will be on how these factors affect adjustment to a disability, and on professional practice with the disabled. Topics include concepts of medical and psychosocial aspects of disability which relate to conditions that impair bodily systems and/or structures due to illness or accident that result in permanent and/or chronic functional limitations. Prereq: College level courses in biology and psychology or consent of instructor. (Same as RC 515.)

SW 516 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES II. (3)
This course is designed to prepare rehabilitation counselors and social workers to become interpreters of medical information concerning major disabilities and to provide an understanding of the psychosocial factors encountered by the disabled. Focus will be on how these factors affect adjustment to a disability, and on professional practice with the disabled. Topics include concepts of medical and psychosocial aspects of disability which relate to conditions that impair bodily systems and/or structures due to illness or accident that result in permanent and/or chronic functional limitations. Prereq: College level courses in biology and psychology or consent of instructor. (Same as RC 516.)

SW 523 SOCIAL PERSPECTIVES ON RACISM AND ETHNIC PREJUDICES IN AMERICA. (2-3)
An examination of the history, organization and processes within the juvenile justice system, including the roles of the police, courts, and helping professionals. The impact on social work practice within the juvenile justice system is the major focus.

SW 571 SOCIAL WORK AND THE LAW. (3)
The course examines the lawyer’s method and the legal system; the organization and processes within the juvenile justice system, including the roles of the police, courts, and helping professionals. The impact on social work practice within the juvenile justice system is the major focus.

SW 600 SOCIAL WORK PRACTICE IN JUVENILE JUSTICE. (3)
An examination of the history, organization and processes within the juvenile justice system, including the roles of the police, courts, and helping professionals. The impact on social work practice within the juvenile justice system is the major focus.

SW 601 SOCIAL WORK PRACTICE II. (2)
This course builds on the knowledge base developed in SW 600. Ecological/systems framework provides a basis for practice with small groups, organizations, and communities. The impact of social and economic injustice is explored in depth. The impact of discrimination and oppression on populations-at-risk is discussed. Prereq: SW 600. Open only to students admitted to graduate school Social Work program.

SW 602 SOCIAL WORK PRACTICE III. (2)
This course builds on the knowledge base developed in SW 600. Ecological/systems framework provides a basis for practice with small groups, organizations, and communities. The impact of social and economic injustice is explored in depth. The impact of discrimination and oppression on populations-at-risk is discussed. Prereq: SW 600. Open only to students admitted to graduate school Social Work program.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 603</td>
<td>SOCIAL WORK PRACTICE WITH CHILDREN AND YOUTH. (2) Study and analysis of developmental crises and problems of children and youth. Emphasis upon social work strategies of intervention for prevention, amelioration or resolution. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 604</td>
<td>SOCIAL WORK PRACTICE WITH THE AGING. (2 or 3) This course will develop the framework of knowledge and skills necessary for effective social work practice in a variety of primary and host settings which deal with problems and issues confronting the aging citizen in contemporary society. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 605</td>
<td>SOCIAL WORK PRACTICE IN HEALTH SERVICES. (2) Examination and analysis of the role of social work in health care delivery systems. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 606</td>
<td>SEMINAR IN CRIMINAL JUSTICE PROCESSES. (2) Criminal justice processes are studied and evaluated emphasizing system aims, theories of criminality and societal reaction, the consequences and costs to offenders and to society of current policies to control and prevent crime. Traditional and innovative community and institutional programs for adult and juvenile offenders will be examined.</td>
</tr>
<tr>
<td>SW 607</td>
<td>SOCIAL WORK PRACTICE WITH FAMILIES. (2) The presentation and critical examination of theory as it relates to the study of contemporary marriage and family life and professional social work practice skills intended to strengthen family life. Seminar; two hours. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 609</td>
<td>CLINICAL SOCIAL WORK PRACTICE. (2) The presentation and critical examination of specific treatment modalities as they relate to individuals, families, marital couples, and groups. Specific emphasis will be placed on the application and evaluation of specific intervention techniques. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 610</td>
<td>SOCIAL SERVICES IN BLACK COMMUNITIES. (3) Study of the diversity of relationships, structures, and processes in Black communities, of particular problems and human service needs of ethnic clients, and of implications for social service practice.</td>
</tr>
<tr>
<td>SW 611</td>
<td>SOCIAL WORK PRACTICE IN MENTAL HEALTH. (2-3) Description, analysis, and examination of social work practice in the mental health service delivery system, with particular emphasis on social work interventions and roles.</td>
</tr>
<tr>
<td>SW 612</td>
<td>SEMINAR ON SOCIAL WORK PRACTICE WITH WOMEN. (2-3) This seminar focuses on the special problems and practice strategies relevant to selected groups of women served by social work.</td>
</tr>
<tr>
<td>SW 613</td>
<td>URBAN ECOLOGY AND AGING. (2 or 3) Effects of an urban environment upon the aging population, including community design, city planning, housing, transportation, relocation, and mobility. The impact of technological advances will be examined from the point of view of theory, current research, and the process of man-environmental relationships.</td>
</tr>
<tr>
<td>SW 614</td>
<td>SOCIAL WORK PRACTICE WITH PEOPLE WITH AIDS. (2-3) A clinically-based study of the impact of AIDS upon individuals and families and the implications of the epidemic for social work practice. Emphasis will be on case analysis and examination of intervention strategies using experiential and case history techniques.</td>
</tr>
<tr>
<td>SW 616</td>
<td>SOCIAL WORK PRACTICE IN SCHOOL SETTINGS. (2-3) A presentation and examination of school social work practice. Emphasis will be placed on roles, competencies and skills necessary for effective service provision. The differences in services to children in schools will be contrasted with those in primary social service settings. Focus will also be given to the impact of school legislation and regulations on the choice of populations served and programs provided.</td>
</tr>
<tr>
<td>SW 617</td>
<td>FAMILY VIOLENCE: SOCIAL WORK INTERVENTIONS. (2-3) The development of a knowledge based framework for understanding, preventing and intervening in family violence as seen in child, spouse and elder abuse.</td>
</tr>
<tr>
<td>SW 618</td>
<td>SOCIAL WORK PRACTICE WITH GAY AND LESBIAN PEOPLE. (2-3) This course is designed to expand the knowledge and understanding of students about the theory and dynamics of homophobia, heterosexism, and homonegativity. The effects of living with prejudice and discrimination among the gay and lesbian support systems available. Micro and macro social work intervention strategies will be studied as they relate to overall themes. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 620</td>
<td>HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT. (4) The general purpose of this foundation course is to develop in the student an understanding of the inter-relatedness of biological, social, cultural, environmental and psychological factors in human behavior and development. The knowledge base focuses upon the interaction among six units of analysis: the individual, the family, the small group, the organization, the community, the society and culture. The course draws upon social work knowledge as well as other areas, including child and adult development, personality, organization, family theory, small group theory, learning/behavioral theory, cognitive theory. The ecological perspective provides the unifying framework which integrates the concepts from each of these areas of study. Students are expected to develop their own personal theoretical models most appropriate to generalist practice and utilized to inform and guide intervention at all system levels. Prereq: Open only to students admitted to graduate Social Work program.</td>
</tr>
<tr>
<td>SW 623</td>
<td>SOCIAL WORK PRACTICE WITH GROUPS. (2-3) This course critically analyzes approaches to group practice in social work emphasizing socialization and resocialization purposes and leader activities. Research and practice issues are examined. Prereq: SW 600 or 601 or consent of instructor.</td>
</tr>
<tr>
<td>SW 624</td>
<td>PERSPECTIVES ON HUMAN SEXUALITY. (3) An examination and study of historical and current perspectives of sexuality as it relates to behavioral patterns, cultural attitudes, social policy and practice. Prereq: Knowledge of human behavior and personality theory highly recommended. (Same as FAM 624.)</td>
</tr>
<tr>
<td>SW 626</td>
<td>FORENSIC MENTAL HEALTH: EVALUATION AND TREATMENT. (2-3) An intensive analysis and study of forensic mental health including court evaluation, courtroom testimony and treatment of the victim. Students who wish to take this course for three credits will be expected to make an in-depth study of a specific content area. Lecture, two hours; laboratory (only for those taking the course for three hours), two hours per week. Prereq: Knowledge of behavior and personality theory is highly recommended.</td>
</tr>
<tr>
<td>SW 627</td>
<td>SOCIAL WORK INTERVENTION IN FAMILY PROBLEMS. (2-3) The course involves identification of family problems encountered in social work practice and settings and presents the interventions commonly implemented in social work practice. The emphasis is on the social work approach to intervention with family problems.</td>
</tr>
<tr>
<td>SW 630</td>
<td>SOCIAL WELFARE POLICY AND SERVICES. (4) This course emphasizes programs and policies, the historical roots of each, and the policy making process including models for policy analysis, and the components of formulation, enactment, implementation and impact. Course content reflects interdisciplinary efforts of the social, political, legal, economic and administrative processes which are vital to policy making at all levels. Prereq: Open only to students admitted to graduate Social Work program.</td>
</tr>
<tr>
<td>SW 634</td>
<td>COMPARATIVE SOCIAL WELFARE POLICIES AND PROGRAMS. (2-3) A comparative study of income maintenance and health care delivery systems in selected foreign countries and the United States. Emphasis will be given to the problems in coverage, financing and administration.</td>
</tr>
<tr>
<td>SW 636</td>
<td>MANAGEMENT SKILLS. (3) Practical application of relevant theories to the day-by-day operation of an organization, i.e., program objectives setting, climate setting, task identification and resource allocation, performance monitoring, decision making, etc.</td>
</tr>
<tr>
<td>SW 637</td>
<td>TASK GROUPS IN AN ORGANIZATIONAL CONTEXT. (2) Theories and selected concepts about task groups are studied to understand the dynamics of task groups and/or to provide guidelines for changing group processes to increase effectiveness. Application of this knowledge is made to task groups such as councils, committees, teams, and boards. Class members will have the opportunity to develop skills appropriate for use as members and leaders of task groups.</td>
</tr>
</tbody>
</table>
SW 640 GRADUATE EDUCATIONAL PRACTICUM I. (5)
Introduction to social work practicum under faculty direction in a Teaching-Learning Center. Students will begin to apply and integrate knowledge from other courses in experiences which aid them in developing social work practice skills with emphasis on individual, families, small groups, towards the goals of prevention, restoration and enhancement of social functioning. Experiential learning, 225 hours, and seminar. Prereq or concur: SW 600, SW 620 and SW 650.

SW 641 GRADUATE EDUCATIONAL PRACTICUM II. (5)
This course continues the process of introducing students to social work practicum under faculty direction in a Teaching-Learning Center. Students will continue to apply and integrate knowledge from other foundation courses in experiences which aid them in developing social work practice skills with individual, families, small groups. In addition, students will develop social work practice skills with organizations and communities toward the goals of prevention, restoration, and enhancement of social functioning. Experiential learning 225 hours and seminar. Prereq: SW 640. Prereq or concurrent: SW 601 and SW 630.

SW 642 PSYCHOLOGICAL ASPECTS OF HUMAN AGING. (3)
Description and explanation of behavior, socialization and personality differentiation during the post-maturation developmental period: emotional aspects of aging; perception, intelligence; learning; motivation; normal and abnormal behavior; sexuality; life style. Prereq: SW 620 or equivalent, or consent of instructor.

SW 643 BIOMEDICAL ASPECTS OF AGING. (3)
A survey of the normal age-associated changes in biological function, the major disease entities found in the elderly population, and how the health care delivery system presently addresses these issues. Prereq: Graduate status or permission of the instructor. (Same as GRN 643.)

SW 650 RESEARCH METHODS IN SOCIAL WORK. (3)
Introduction to systematic approaches to scientific thinking necessary for building knowledge and evaluating one's own practice. Includes ethical use of scientific inquiry, critical appreciation of quantitative and qualitative methodologies, and use of research for program evaluation. Prereq: Open only to students admitted to the graduate Social Work program.

SW 652 PUBLIC POLICY AND AGING. (2 or 3)
The content of this course will center around the federal/state policy-making and policy implementation process. Among the areas to be considered are the origins of policy, interaction among policy-making bodies, the legal right and access to policy influence, political attitudes and behavior, the impact of the legislative system on the aging population, resource allocation, social insurance, the Older Americans Act, and political advocacy for and by older people and groups. Prereq: SW 630 or equivalent consent of instructor.

SW 680 SPECIAL PROBLEMS IN SOCIAL WORK PRACTICE. (2-6)
Current issues that have special significance for social work practice. Selected problems in accordance with the needs and interests of the students registered for the course. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

SW 700 ADVANCED GENERALIST SOCIAL WORK PRACTICE I. (3)
Students learn multidimensional and in-depth approaches for work with individuals, couples, families, and group systems using the advanced generalist model of practice within a systems framework. Leadership roles are emphasized, and complex ethical and legal issues analyzed. Careful consideration of diversity issues and at-risk populations is included. Prereq: SW 601 or advanced standing. Open only to students admitted to graduate Social Work program.

SW 701 ADVANCED GENERALIST SOCIAL WORK PRACTICE II. (2)
Students learn multidimensional approaches for work with organizations, communities, and larger systems using the advanced generalist model of practice within a systems framework. Leadership roles are emphasized, and complex ethical and legal issues analyzed. Careful consideration of diversity issues and at-risk populations is included. Prereq: SW 700 or advanced standing. Open only to students admitted to graduate social work program.

SW 711 ADVANCED LEADERSHIP ROLES IN SOCIAL WORK. (3)
Advanced study and analysis of leadership roles in social work practice with emphasis upon administration and supervision. Some attention is given to consultation, staff development and teaching, and review of theories of adult learning. Prereq: SW 701 or consent of instructor.

SW 720 SOCIAL WORK PERSPECTIVES ON HUMAN AND CULTURAL DIVERSITY. (2)
This second required course in the human behavior and social environment sequence builds upon the foundation course. The focus of this course is upon the effects of discrimination and oppression experienced by diverse population groups with special attention to the effects of racism, sexism, ageism, classism and geography upon vulnerable groups; and upon institutionalized societal and cultural themes in diversity; with implications for social work practice. Prereq: SW 620 or advanced standing in the MSW program.

SW 722 SOCIAL WORK PERSPECTIVES ON PSYCHOPATHOLOGY. (3)
This final required course in the human behavior and the social environment sequence will focus upon an intensive examination of mental disorders as they relate to the individual and the family. Emphasis will be placed upon psychopathology in childhood, adolescence and adulthood. Models for understanding abnormal behavior will be introduced. In addition, the course will focus on cultural themes, ethical, legal and gender issues. Diagnostic techniques and interventive treatment strategies will be explored. Prereq: SW 620 or advanced standing in the MSW program.

SW 730 ADVANCED SOCIAL WELFARE POLICY AND SERVICES I. (3)
This course examines the intended and unintended consequence of public and organizational policies on the major social problems of poverty, racism, and gender inequality, focusing on oppression, exploitation, and victimization of people of color, women and children, and highlighting value conflicts. Relevant policies will be studied within the context of at-risk groups such as the elderly, families, and children, and those who are physically and mentally ill and disabled. Prereq: SW 630 or advanced standing in MSW program.

SW 731 ADVANCED SOCIAL WELFARE POLICY AND SERVICES II. (2)
This course examines the intended and unintended consequences of public and organizational policies on the major social problems involving the at-risk groups - the elderly, families and children, and those who are physically and mentally ill, current policies, especially those under intense review, to gain better understanding of value conflicts. Prereq: SW 730 and admission to graduate Social Work program.

SW 736 ORGANIZATION AND MANAGEMENT METHODS FOR SOCIAL WORKERS. (2-3)
This course will consider the appropriate skills and methods for effectively organizing and managing agencies, institutions, and organizations which are elements of the various social service delivery systems. Included is the study of the management process as it applies to social service settings, an examination of specific management skills, and consideration of the impact of social service programs and delivery methods on program constituents and consumers. Prereq: SW 636 or consent of instructor.

SW 740 ADVANCED GRADUATE EDUCATIONAL PRACTICUM I. (5)
Application and integration of the advanced generalist practice model in advanced methods of intervention under faculty direction in a Teaching-Learning Center. Emphasis is on the development of leadership competencies and advanced generalist practice skills with individuals, families and small groups, organizations and communities. Experiential learning, 225 hours, and seminar. Prereq: SW 641 or advanced standing in the MSW program. Prereq or concurrent: SW 700.

SW 741 ADVANCED GRADUATE EDUCATIONAL PRACTICUM II. (5)
This course provides an opportunity for students to continue to apply and integrate the advanced generalist practice model in advanced methods of intervention under faculty direction in a Teaching-Learning Center. Emphasis is on the continued development of leadership competencies and advanced generalist practice skills with individuals, families, small groups, organizations, and communities towards the goals of prevention, restoration and enhancement of social functioning. Experiential learning, 225 hours, and seminar. Prereq: SW 740. Prereq or concurrent: SW 701.

SW 749 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

SW 750 RESEARCH DESIGN AND IMPLEMENTATION IN SOCIAL WORK PRACTICE I. (2)
Development of a research or evaluation design that will contribute to social work knowledge base or systematically evaluate a program, practice, or intervention. Prereq: SW 650 or advanced standing in the MSW program.
SW 751 RESEARCH DESIGN AND IMPLEMENTATION IN SOCIAL WORK PRACTICE II. (2)
Continuation and completion of research designed and started in SW 750. Prereq: SW 750.

SW 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (0-12)
May be repeated indefinitely. Prereq: Successful completion of qualifying exam.

SW 780 INDEPENDENT WORK. (1-6)
Organized study, research and/or tutorial focused on special issues or problems. May be repeated to a maximum of six credits. Prereq: Major, graduate standing of 3.0 overall GPA, or consent of dean, and consent of adviser and instructor.

SW 781 THEORY DEVELOPMENT IN THE SOCIAL WORK PROFESSION. (3)
Explores the nature of knowledge, how it is generated and acquired. Students will distinguish explanatory from practice theory, understand paradigms as bases for ideas, recognize and formulate concepts, understand relational statements, theoretical statements, and how these relate to theory and data. Strategies for building knowledge will be discussed. Students will analyze theories into their components, construct mini-theories, and propose how they can be tested in social work practice. Prereq: Admission into the doctoral program.

SW 782 ADVANCED ANALYSIS OF SOCIAL PROBLEMS, POLICY AND PRACTICE. (3)
This course provides students with a theoretical and conceptual framework for understanding social problems and their implications for macro social work practice. Critical perspectives related to social science theory will be identified, assumptions assessed, values examined, and empirical evidence analyzed. Theories covered will be drawn from sociological, socio-cultural, political, economic, historical and other perspectives. Students will be expected to develop their abilities to analyze and critique social problems and macro social work practice. Prereq: Admission into the doctoral program.

SW 783 HUMAN BEHAVIOR AND CHANGE THEORIES IN SOCIAL WORK PRACTICE. (3)
A critical analysis of theories which seek to explain human behavior and serve as foundations for current clinical change interventions; includes an examination of the empirical support for and efficacy of major treatment modalities used in social work practice.

SW 784 ETHICS, SOCIAL WORK AND SOCIETY. (3)
This course will identify and articulate the philosophical formulations of relevant ethical traditions and their implications for social work. Students will examine approaches to ethical analysis as well as major ethical problems facing contemporary social work. The course will emphasize the development of advanced ethical reasoning and decision-making skills. Prereq: SW 781.

SW 785 PROSEMINAR IN SOCIAL WORK RESEARCH. (1)
This seminar introduces beginning doctoral students to the research activities of social work faculty and advanced students. Presentations will familiarize students with practical issues in the conceptual development and conduct of current research. May be repeated to a maximum of two credits. Prereq: Admission into the doctoral program.

SW 786 DOCTORAL RESEARCH PRACTICUM. (3-6)
Provides the doctoral student opportunity to conduct social work research under the supervision of a chosen faculty member. This experience is expected to result in one or more reports suitable for submission to a scholarly journal at conclusion of the practicum. Prereq: Completion of first year of doctoral study.

SW 787 DOCTORAL TEACHING PRACTICUM. (3-6)
Supervised teaching and other classroom experiences designed to prepare doctoral students to be social work educators. Prereq: Completion of first year of doctoral study.

SW 788 RESEARCH IN SOCIAL WORK SEMINAR. (3)
This course is designed to facilitate the student’s completion of the dissertation prospectus and the dissertation itself. Students will make formal presentations on their research plans and will address available literature, methodological issues, analysis of data, limitations, and importance of the investigation. Prereq: Six hours doctoral level research.

#SW 795 ADVANCED DOCTORAL SEMINAR IN SOCIAL WORK (Subtitle required). (3)
Topics of current importance in Social Work research and practice, including philosophical, theoretical, ethical, and technical considerations. May be repeated to a maximum of twelve credits under different subtitles. Prereq: Admission to the joint Ph.D. program.