

- 435. PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS (GIS). 3 cr.** Techniques for analyzing, displaying and managing geographic data topics including: structure of geographic data bases, principles of digital cartography, basic spatial statistics, and analysis of spatial relationships using GIS. Prerequisite: Junior or senior standing.
- 440. ENVIRONMENTAL EARTH SCIENCE. 3 cr.** A survey of the interactions between people and the physical environment, including hazardous earth processes, hydrology and pollution, waste disposal, environmental health, mineral resources, energy, and land use. Prerequisites: Any of the following Geosciences 101, 402, Geology 101, 206, Geography 213.
- 441. GEOENVIRONMENTAL SEMINAR. 1 cr. Maximum, 3 cr.** Geoenvironmental topics are examined in depth through library research, audiovisual materials analysis, and interactive software. Investigations are presented and critiqued during round table discussions. Assigned topics vary each semester. Prerequisite: Any pertinent basic science course or Permission of the Instructor.
- 445. ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS). 3 cr.** A project-oriented course intended to demonstrate how principles learned in Geosciences 435 can be applied to solving complex real-world problems. Prerequisite: Geosciences 435 or Permission of Instructor.
- 450. REMOTE SENSING OF THE ENVIRONMENT. 3 cr.** This course will cover the basics and the interpretation of remote sensing data that will include aerial photography, U.S. and French satellite imagery, thermal infrared, Sideways Looking Radar, Synthetic Aperture Radar, and other airborne platforms such as the Daedalus Multispectral Scanner used by NASA.
- 460. ARCHEOLOGY AND GEOLOGY OF NATURAL DISASTERS. 3 cr.** Case studies of the archeological and geologic evidence for the history, causes, and effects of historical and prehistoric natural disasters. Use of archeological and geologic data to develop realistic supportable scenarios for the natural disasters will be stressed. Prerequisites: Anthropology 201; Geology 101, 102.
- 491. RESEARCH. 1-6 cr. Maximum, 6 cr.** Research problems that can be completed in one semester. Three hours laboratory per week for each credit hour. A written proposal with a list of references must be submitted to and be approved by the supervising professor and department head. Results of work will be presented in a seminar. Prerequisites: Junior or senior standing in geosciences.

#### For Graduates Only

- 505. ADVANCED SURFACE WATER HYDROLOGY. 3 cr.** Advanced treatment of surface water drainage systems, with particular emphasis on urban watersheds. Will include numerical modeling of watershed drainage systems. Prerequisite: 430.
- 510. REGIONAL GEOMORPHOLOGY. 3 cr.** Evolution of landforms and surficial geologic systems within a specific region. Particular emphasis will be placed on processes active in the river and wetland systems, and development of characteristic landforms. A. Lower Mississippi River Valley; B. Gulf Coast Physiographic Province. Prerequisites: 330-331, Geology 417, 425-426.
- 591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Investigative advanced study and selected problems in: A. Advanced Urban Geography; B. Archeological Analysis; C. Paleoclimatology; D. Paleocological Analysis; E. Metamorphic Petrography; F. Sedimentary Petrography. A written proposal with a list of references must be submitted to and be approved by the supervising professor and department head. Results of work will be presented in a seminar.
- 599. THESIS. 1-6 cr.** A written proposal with a list of references must be submitted to and be approved by the supervising professor and department head. Results of work will be presented in a seminar. Grades of CR (Credit) or NC (No Credit) will be awarded.

## GERONTOLOGY (GERO)

#### For Undergraduates and Graduates

- 410. ECONOMICS OF AGING. 3 cr.** An examination of issues related to the economic status of persons as they grow older. Attention will be given to problems and policies which relate to income maintenance, planned and unplanned expenditures, inflation, reduced income, post-retirement employment, public and private pensions, health insurance, pre-retirement counseling and legislative reforms. (Formerly Economics 510, Same as Economics 410.)
- 411. SOCIAL WORK PRACTICE WITH THE ELDERLY. 3 cr.** An introduction to the social, economic, and psychological dimensions of aging using a person-in-environment approach. (Same as SOCW 411).

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- 424. WOMEN AND AGING. 3 cr.** Examines the life experiences of women as they age. Emphasis is on sociological influences on perceptions of aging among women and on aging women's roles in society. (Same as Sociology 424.)
- 425. SEMINAR IN DEATH AND DYING. 3 cr.** Exploration of the social organization of dying, including a view on cross-cultural perspectives on death, treatment of the dying patient, and the grief process. (Same as Sociology 425.)
- 427. FIELD WORK IN GERONTOLOGY. 1-3 cr.** Student placement in a senior center, social service agency, nursing home, or hospital for nine hours per week. Students already employed in an agency will take Sociology 428. Prerequisite: Approval of Department Head. (Formerly Sociology 427.)
- 428. DIRECTED RESEARCH IN GERONTOLOGY. 1-3 cr.** Individual examination of a relevant problem in Gerontology as approved and directed by student's major professor. Prerequisite: Approval of Department Head. (Formerly Sociology 428.)
- 430. ELDER ABUSE. 3 cr.** An examination of the definition, causes, and theories associated with the problem of elder abuse. Relevant research regarding the historical perspectives, recognition of abuse, assessment techniques, and interventions will be presented.
- 431. ELDER LAW. 3 cr.** An examination of legal challenges older Americans are facing as they plan their later years and seek to maximize their quality of life. These challenges include age discrimination in employment, housing alternatives and options, financial management and planning, medical needs and attention, and consent, and long-term care.
- 435. HOUSING THE ELDERLY. 3 cr.** Examination and application of the guidelines, issues and choices associated with housing disruption and relocation of the elderly. (Same as Family and Consumer Sciences 435. Formerly Gerontology 503 and Sociology 503, Gerontological Housing and Aging.)
- 452. QUALITATIVE RESEARCH. 3 cr.** Examines the conceptualization; selection and protection of participants; data collection, analysis, and presentation; ethical issues; and strengths and weaknesses of qualitative research. (Same as SOCL 452)

### For Graduates Only

- 502. LIFESTYLES ISSUES AND RESOURCE MANAGEMENT IN AGING. 3 cr.** A sociological investigation into leisure activities among the aged, issues in pre-retirement and retirement, managing resources, holistic health and lifestyle changes, nutrition, and stress reduction. (Same as Sociology 502.)
- 510. BIOLOGY OF AGING. 3 cr.** A review of the fundamental aspects of biological aging; age-related anatomical and physiological changes displayed by humans and other mammals at the molecular, cellular, and organismic levels. (Same as Biology 510.)
- 512. SOCIAL GERONTOLOGY. 3 cr.** An examination of social aspects of adjustment to aging, attitudes toward aging, social-psychological and sociological theories of aging, successful aging, family patterns, intergenerational relationships, leisure, and retirement. Attention will be given to demographic changes, middle age, minority aged, and adult socialization. (Same as Sociology 512. Formerly Sociology 510 - Sociology of Aging.)
- 515. MINORITY AGING. 3 cr.** This course will examine the current state of gerontological knowledge about each of the federally designated minority group populations: African Americans, American Indians, Asian/Pacific Islanders, and Hispanics. Each student will have the opportunity to explore the state of knowledge about a particular group or a research issue across populations. Prerequisite: Permission of Instructor.
- 520. MINORITY HEALTH AND AGING. 3 cr.** An examination of ethnic and cultural variations in physical and mental health status among minority aged individuals. Topics include morality, morbidity, social and environmental influences on health status, individual risk factors, functional impairment, and the relation of these issues to the use of health care services.
- 526. COMMUNICATION IN GERONTOLOGY. 3 cr.** The study of communication processes among gerontological professionals, staff, patients, healthcare providers and administrators. Emphasis on research strategies and practical learning experiences as tools for facilitating interaction. (Same as Speech Communication 526.)
- 540. ASSESSMENT AND CASE-MANAGEMENT. 3 cr.** An investigation of these techniques in different healthcare and social program settings. Details are given on the social significance of human resources and skill building for conducting assessment and case management of senior clients for achievement of goals. Prerequisite: Permission of Department Head.
- 545. ETHNIC AND CULTURAL VARIATIONS IN SERVICE DELIVERY. 3 cr.** An examination of ethnic and cultural factors influencing the planning and delivery of health and social services to the aged and handicapped. Topics include important service delivery issues such as estimating service needs; theoretical models of service utilization; barriers, outreach and targeting; diverse

cultural values, culturally appropriate service modalities; and impact of cultural values on planning, policy, and practice.

- 565. COMMUNITY-BASED AND LONG-TERM CARE. 3 cr.** A review of the various types of community based care with attention to the types of environments and services offered, the process of entry into care systems, physical and socio-emotional care, relations between residents and staff members, and social relationships inside and outside of care facilities. Health and quality of care, medical ethics, environmental health, and the delivery of services are addressed. (Same as Sociology 565. Formerly Introduction to Long-Term Care.)
- 566. CAREGIVING. 3 cr.** This seminar will take a comprehensive look at what is known about informal, family caregiving in the U.S. Assignments will identify who assumes care, the types of problems caregivers confront, caregiving tasks, caregiver appraisal of the situation, caregiver burden, and the psychological, social, work, and health consequences of caregiving. Attitudes towards and use of services will also be addressed. To the extent possible, the seminar will cover what is known about caregiving in each of the major populations: African American, American Indian, Asian & Pacific Islander, Latino, and non-Hispanic whites.
- 567. PROGRAMS AND PUBLIC POLICY. 3 cr.** Analysis of the Older American's Act, national and state programs on aging, and other legislative/congressional acts: their effects on research, training, and grant development in the field of gerontology. (Same as Sociology 567. Formerly Analysis of Programs and Practice in the Aging Network.)
- 568. PROGRAMS AND SERVICES IN GERONTOLOGY. 3 cr.** An examination of legislation that provides the foundation for the aging network, the programs and services available, and the theories that help predict service use by elders. Relevant research regarding social context of community resource delivery, community, support, and long-term care services, and the future of programs and services for the older adult will be presented.
- 575. RESEARCH IN GERONTOLOGY. 3 cr.** Integration and application of research designs used in gerontology; examines the impact of research on programs, policy, and planning; attention given to grant writing for research support. Prerequisite: Undergraduate methods course or approval of gerontology graduate coordinator. (Same as Sociology 575.)
- 580. TOPICS IN GERONTOLOGY. 3 cr.** In depth analysis and discussion of significant contemporary issues in aging. Will cover state-of-the question issues on timely topics in gerontology. May be repeated for credit as topics vary up to a maximum of nine hours. Prerequisite: Approval of Instructor.
- 585. THEORIES OF AGING. 3 cr.** An intensive analysis of the theories of aging that have been advanced by researchers in the social and behavioral sciences from 1950 to the present. Classic statements and formulations are complimented by more recent theoretical discussions and empirical tests of each theory. Prerequisite: Permission of instructor.
- 587. LONG-TERM CARE ADMINISTRATION I. 3 cr.** An overview of the departments and their functions, personnel issues, fiscal resources, ethics, facility maintenance, nutrition, and medical/social service terminology, and relations with families, volunteers, and residents.
- 588. LONG-TERM CARE ADMINISTRATION II. 3 cr.** In-depth examination of Federal, state, and local regulatory agencies, their mandated policies and procedures, and enforcement. Prerequisite: Gerontology 587.
- 590. INTERNSHIP IN GERONTOLOGY. 3-6 cr.** A field experience for those graduate students interested in research experience or applied aspects of gerontology. Students will be assigned to a program involving research activities, service provision, or administration of programs related to the aging and aged populations. Prerequisite: Consent of Instructor. (Formerly Sociology 590.)
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

## GOVERNMENT (GOVM)

### For Undergraduates and Graduates

- 403. ETHICS. 3 cr.** A study of the theoretical foundations of morality with reference to approaches to ethical thought, character, and action. Concepts include good and evil, right and wrong, obligation and rights, responsibility freedom. The application of these concepts to the working out of particular ethical problems. (Same as PHIL 403).
- 406. POLITICAL PARTIES, CAMPAIGNS & ELECTIONS. 3 cr.** Political parties, Campaigns and Elections focuses on three closely related topics and phenomena: parties, campaigns and elections in the American context. We will be seeking to understand their parallel, and in some sense, symbiotic development and relationships. We will study the history of party politics in the United States, focusing on change and development in relationship to the dynamic American Republic. Prerequisite: GOVM 201.