COURSE DESCRIPTIONS

HWC 323 Growing Old in America: The Social Conditions Policy and Practice Implications
Explores the social, political, and economic conditions related to aging in this society. Identifies social policies and program formats that enhance wellness and support dependencies from a positive perspective. Co-scheduled with HWC 523.
2 credits

HWC 325 Anger Management
Presents concepts of anger management within a bio-psychosocial context. Students learn how to recognize external manifestations of anger in themselves, clients, organizations, and communities. Focus is on assessment of clients’ ability to both recognize anger (“residual” as well as anger “masking underlying feelings”) and methods used for coping. Anger management concepts and skills at the micro, mezzo, and macro levels of practice are explored, including anger management strategies that can be taught to clients as part of an intervention plan. Environmental and societal factors as “igniting events” of anger in individuals, families, groups, and communities are examined. Appropriate assessment and interventions at all levels of practice are delineated.
2 credits

HWC 326 Health Care Delivery with Diverse Populations
An overview of the many facets of health-care delivery and the role of social workers in that delivery. Various systems and diverse populations and how they are treated by the health-care systems are examined. Covered are community-based health-care services, hospital care, long-term care, and the health-care needs of the health-care system on women, African Americans, Latinos, the developmentally disabled, children, and the aged. Co-scheduled with HWC 526.
2 credits

HWC 329 Complementary and Alternative Medicine
Human service workers are often required to discuss issues of health and healing. Many individuals, by virtue of their culture, experiences and/or choice, often adhere to a combination of nontraditional and traditional beliefs regarding health care. Familiarizes students with those methods and beliefs most often found in specific cultures. Students will develop an appreciation of each practice in order to interact with clients from a strengths perspective and will gain an international perspective on health-care modalities.
2 credits

HWC 340 Social Issues in Popular Culture
Movies have been a useful medium that can illustrate current social issues and family dynamics, as well as policy and research dilemmas. Each week, a film with a central practice/research/policy issue provides the basis for a lecture and class discussion. Topics focus on a variety of social issues such as family dynamics, bereavement, adoption, domestic violence, abuse, residential placement, policy, and research. Co-scheduled with HWC 540.
2 credits

HWC 344 Overview of Substance Abuse
An examination of the history and development of alcohol and substance abuse problems in the United States. Focuses on the etiology, psychopharmacology, and legal ramifications of the use of licit and illicit substances in our culture. Provides information on a variety of services available to drug abusers, addicted individuals and their families in the fields of prevention, education, and treatment. Co-scheduled with HWC 544.
Prerequisite: Admission to Undergraduate Health Sciences Center program
2 credits

HWC 347 Managing Conflict
A major concern for health and human service managers is conflict in organization, community, and group settings. The various types of conflicts and the concepts of negotiation and mediation as interventional strategies will be considered. Didactic and experiential learning experiences are utilized. Focus is on analyzing conflict situations and selecting interventional strategies to reduce, contain, or heighten the conflict situation. Oppressive conditions, structures, and processes are considered major determinants of human suffering and individual and social problems; students examine how these oppressive conditions are present in conflict situations and consider ways of dealing with them. Co-scheduled with HWC 547.
Prerequisite: Admission to Undergraduate Health Sciences Center program
2 credits

HWC 349 Overview of Social Work with Special Populations
Examines the issues that social workers must consider when working with traditionally disenfranchised populations. Emphasis will include micro and macro issues when intervening with gay and lesbian individuals, members of diverse racial and ethnic groups, and women, as well as others. The historic as well as contemporary experiences of these individuals' interactions with the health and human service delivery system will be explored. Co-scheduled with HWC 549.
2 credits

HWC 351 Law and Social Change
Introduces students to the interrelationship of the legal process in the United States and the profession of social work. Focuses on the legal process in general, social welfare law, in particular, and the implications for effective social work practice. Co-scheduled with HWC 551.
2 credits

HWC 361 Implications of Racism for Social Welfare
Examines personal and institutional racism in the United States and the effect racism has on the delivery of services to individuals who do not fit the traditional “American model.” Examines the historical relationship between racism and social welfare policies, programs and practice, as well as contemporary strategies for change. Co-scheduled with HWC 561.
2 credits

HWC 363 Homelessness, Politics and Public Health
Analyzes homelessness as an issue of social policy, including its history, recent causes, and current demographics. Emphasizes the political and economic context that has made homelessness a major social problem. Co-scheduled with HWC 563.
2 credits

HWC 379 Special Topics in Social Welfare
Examines significant timely issues confronting the profession. Topics include violence as a public health problem, issues of aging, racism, gender, AIDS, the media, spirituality, forensic social work, international social work, and others. Topics vary each term as faculty develop specific modules that address one or more of these issues. Co-scheduled with HWC 579.
1-3 credits

ISE 300 Writing in Information Systems
See requirements for the Information Systems major, upper-division writing and oral skills requirement.
Prerequisites: WRT 162; U3 or U4; ISM 290 grading
1 credit

ISE 305 Principles of Database Systems
The design of database management systems to obtain consistency, integrity, and availability of data. Conceptual models and schemas of data: relational, hierarchical, and network. Students undertake a semester project that includes the design and implementation of a database system. This course is offered as both CSE 305 and ISE 305.
Prerequisites: CSE 219 and 220
3 credits
ISE 308 Software Engineering
Introduces the basic concepts and modern tools and techniques of software engineering. Emphasizes the development of reliable and maintainable software via system requirements and specifications, software design methodologies including object-oriented design, implementation, integration, and testing; software project management; life-cycle documentation; software maintenance; and consideration of human factor issues. This course is offered as both CSE 308 and ISE 308.
Prerequisite: CSE 219
3 credits

ISE 310 Data Communication and Networks
Study of communication networks. Local area network (LAN), integrated voice and data systems (IVDS), and wide area networks (WAN). Their topologies: bus, token passing, tree, point to point. Protocols, speed, and distance limitations: RS232, TCP/IP, MAP/TOP, ON, OSI. Network design and management will be studied in various environments. May not be taken by students with credit for CSE/ESE 346. This course is offered as both CSE 310 and ISE 310.
Prerequisites: CSE 219 and 220
3 credits

ISE 315 Database Transaction Processing Systems
Theory and practice of design for applications involving transactional access to a database. Transaction design, schema design, restart and recovery, journaling, concurrency control, distributed databases. Student groups perform design and implementation of significant database application. This course is offered as both CSE 315 and ISE 315.
Prerequisite: CSE/ESE 305
3 credits

ISE 332 Introduction to Scientific Visualization
Visualization of scientific, engineering, medical, and business data sets. Mechanisms to acquire sampled, computed, or synthetic data and methods to transform symbolic into the visual. Topics include classic visualization process; visual perception; volume and surface visualization; methods for visualizing sampled, simulated, and geometric objects; and visualization systems. Emphasis on applications and case studies. This course is offered as both CSE 332 and ISE 332.
Prerequisites: CSE 219, MAT 211 or AMS 210
3 credits

ISE 333 User Interface Development
Survey of user interface systems, including topics such as command language, windowing, multiple input/output devices, architecture of user interface management systems, and tool kits for designing user interfaces. Additional topics may include human factors, standards, or visual languages. Students participate in a project involving the design and implementation of a user interface system. This course is offered as both CSE 333 and ISE 333.
Prerequisite: CSE 219
Advisory prerequisite: FY 103
3 credits

ISE 334 Introduction to Multimedia Systems
Survey of technologies available for user interfaces. Discussion of hypertext; voice, music, and video together with tools and models for capturing, editing, presenting, and combining them. Capabilities and characteristics of a range of peripheral devices including devices based on posture, gesture, head movement, and touch. Case studies of academic and commercial multimedia systems including virtual reality systems. Students participate in laboratory exercises and build a multimedia project. This course is offered as both CSE 334 and ISE 334.
Prerequisites: CSE or ISE major; U3 or U4 standing
3 credits

ISE 336 Internet Programming
Introduces the design and development of software for Internet commerce. Topics include extended markup languages, cookies, sessions, Internet multimedia types, Web protocols, digital signatures, certificates, encryption, and the wireless Internet. This course is offered as both CSE 336 and ISE 336.
Prerequisite: CSE 219
3 credits

ISE 364 Advanced Multimedia Techniques
Digital media production techniques for high-bandwidth applications such as electronic magazine illustration, broadcast television, and motion picture special effects. Students explore techniques such as 3D modeling and character animation, video compositing, and high-resolution image processing in a state-of-the-art multimedia computing laboratory. High-capacity multimedia storage, high-speed networks, and new technologies such as DVD, HD TV, and broadband will be reviewed. This course is offered as both CSE 364 and ISE 364.
Prerequisites: CSE/ESE 334 and permission of the instructor
3 credits

ISE 390, 391 Special Topics in Information Systems
Lecture or seminar course on a current topic in information systems. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes, but cannot be used more than twice to satisfy ISE major requirements.
Prerequisites: ISE or CSE major; U3 or U4 standing
3 credits per course

ISE 475 Undergraduate Teaching Practicum
Students assist faculty by conducting a recitation or laboratory section that supplements a lecture course. The student receives regularly scheduled supervision from the faculty advisor. May be used as an open elective only and repeated once.
Prerequisites: U4 standing as an undergraduate CEAS major; a minimum g.p.a. of 3.00 in all Stony Brook courses; grade of B or better in the course in which the student is to assist; or permission of department
3 credits

ISE 487 Research in Information Systems
An independent research project with faculty supervision. Only three credits of research electives (AMS 487, BME 499, CSE 487, ESE 499, ESM 499, EST 499, ISE 487, MEC 499) may be counted toward technical elective requirements. May not be taken for more than six credits.
Prerequisites: Permission of instructor and department
0-6 credits

ISE 488 Information Systems Internship
Participation in local, state, national, or international private enterprises, public agencies, or nonprofit institutions. Students are required to submit a written proposal, progress reports, and a final report on their experience to the client and to the department. May be repeated up to a limit of 12 credits but only three credits of CSE or ISE 488 may be used as an elective to satisfy ISE major requirements.
Prerequisites: ISE major; U3 or U4 standing; permission of faculty sponsor and department
3 credits, S/U grading

ISE 391

Italian Language and Literature

ITL 101 Intensive Elementary Italian
An intensive course covering the elementary Italian program (ITL 111, 112) in one semester. ITL 101 is designed for students who have no prior knowledge of the language. A student who has had two or more years of Italian in high school (or who has otherwise acquired an equivalent proficiency) may not take this course without written permission from the supervisor of the course. May not be taken for credit after any other course in Italian.
6 credits

ITL 111, 112 Elementary Italian I, II
An introduction to spoken and written Italian, stressing pronunciation, speaking, comprehension, reading, and writing. Selected texts are read. Practice in language laboratory supplements class work. ITL 111 is designed for students who have no prior knowledge of the language. A student who has had two or more years of Italian in high school (or who has otherwise acquired an equivalent proficiency) may not take ITL 111 without written permission from the supervisor of the course. May not be taken for credit in addition to ITL 101.
Prerequisite to ITL 112: ITL 111
3 credits per course

ITL 201 Intensive Intermediate Italian
An intensive course covering the intermediate Italian program (ITL 211, 212) in one semester. May not be taken for credit in addition to ITL 211, 212.
Prerequisite: ITL 101 or 112
6 credits

ITL 211, 212 Intermediate Italian I, II
Intermediate courses in the reading and discussion of selected Italian texts. Completion of grammatical and syntactic points not covered in Elementary Italian. Extensive practice in conversational ability. May not be taken for credit in addition to ITL 201.
Prerequisite to ITL 212: ITL 111 or 112
Prerequisite to ITL 212: ITL 211
3 credits per course

ITL 311 Italian Conversation and Composition
A course in spoken and written Italian, with emphasis on precision and fluency in the spoken form.
Prerequisite: ITL 201 or 212
3 credits

ITL 312 Italian Conversation and Composition
Reading of selected short passages of prose and poetry in class, with emphasis on improved writing skills, oral expression, and increased mastery of Italian syntax and techniques of literary analysis.
Prerequisite: ITL 201 or 212
3 credits

ITL 313 Italian Vocabulary
A course designed to increase the vocabulary and oral comprehension of students of Italian through media such as television commercials, popular music, folk songs, etc. The particular theme changes each semester. May be repeated twice for credit as the topic changes.
Prerequisite: ITL 201 or 212
1 credit