CSC 599 Independent Study in Computer Science (A). Prerequisite: Instructor’s permission. Arranged in consultation with the instructor-sponsor prior to registration. 1-3 Cr. By Arrangement.

CSC 601 Concepts of Programming Languages (A). Prerequisites: CSC 401, CSC 406 and MTH 481. Presents an advanced mathematical treatment of the underlying principles of programming languages and comparison of the issues as they relate to the main language paradigms: procedural, object-oriented, declarative, functional and concurrent. Covers: lexical vs. syntactic vs. semantic structures of languages; objects and classes, inheritance, dynamic binding, and implementation issues; Lambda calculus and recursive functions; logic resolution and unification; and parallel processing, co-routines and message passing. 3 Cr.

CSC 611 Advanced Computer Architecture (A). Prerequisites: CSC 411, MTH 346 and MTH 481. As an advanced course in architecture of high-performance computer systems, emphasizes quantitative analysis. Includes: measuring performance, cost trends, CISC versus RISC, pipelined processors, branch penalties and prediction, memory hierarchy, cache organization, virtual memory, parallel processors, SIMD/MIMD systems, interconnection networks and distributed computing. 3 Cr.

CSC 683 Automata Theory and Formal Languages (A). Prerequisite: MTH 481. Provides an advanced treatment of the mathematical foundations of computer science, including the theories of automata, formal languages, computability and computational complexity. Includes some of the fundamental material regarding finite automata and context-free grammars as part of regularly accredited undergraduate programs, covering the material more quickly in this course. 3 Cr.

DEPARTMENT OF CRIMINAL JUSTICE

(585) 395-2665
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Chairperson and Associate Professor: Korni Swaroop Kumar, PhD, Temple University-Philadelphia; Assistant Professors: Ann Bunch, PhD, University of Chicago; Addrain Conyers, PhD, Southern Illinois University at Carbondale; Melchor de Guzman, PhD, University of Cincinnati; Moon-Sun Kim, PhD, University at Albany; James Ross, JD, University at Buffalo; Visiting Assistant Professor: Bivette M. Stodghill, MA, University at Albany.

While the Department of Criminal Justice does not have a graduate degree program, its graduate course offerings may be applied as requirements and/or electives in degree programs as determined through advisement.

CRIMINAL JUSTICE COURSES

CRJ 534 Security Administration (B). Provides a comprehensive examination of the nature and problems of private and public security administration. Focuses on the issues of administration and the solutions, especially security technology necessary for successful management. 3 Cr.

CRJ 536 Computer Security (B). Examines the nature, problems and programs to protect organizational information, especially electronically processed data and computer equipment. 3 Cr.

CRJ 551 International Criminal Justice Systems (A). Compares and contrasts the criminal justice system of the United States with the systems of other countries. 3 Cr.

CRJ 565 Terrorism and the Criminal Justice System (A). Examines current terrorism, its origins and ideological bases, with particular attention to its relation to political institutions and the criminal justice response. 3 Cr.

CRJ 571 Research Methods in Criminal Justice (A). Familiarizes criminal justice majors with the development of data-gathering techniques, including scaling, questionnaire construction, sampling procedures, interviewing, secondary data analysis, and techniques of data processing using micro- and minicomputers. Also examines linear causal models as a tool in theory and research, research designs, central tendency, variation and statistics for nominal and ordinal measures. 3 Cr.
CRJ 577 Family Violence (A). Focuses on the dynamics of family violence and the legal and social system response to the phenomena. Explores and analyzes in-depth the scope and theoretical explanations of the issues of the various forms of family violence, e.g. spousal abuse, marital rape, elderly abuse. 3 Cr.

CRJ 579 Victimology (A). Cross-listed as WMS 479. Develops an understanding of crime victimization, both direct and indirect. Focuses on street crime, social and political oppression, victimization of women, and victims of corporate deviance. Emphasizes theory and policy analysis. 3 Cr.

CRJ 581 Women and the Criminal Justice System (A). Examines women's relationships with crime and the criminal justice system. Specifically provides a study of women and crime, victimization and occupational obstacles and opportunities. Develops student understanding of how social, political and economic conditions affect these problems. 3 Cr.

CRJ 585 Issues in Juvenile Justice (A). Provides an in-depth analysis of 10-12 selected topics germane to the juvenile justice system. Includes topics such as child abuse and domestic violence, alternatives for the status offender, ethical issues, children's rights, right to treatment and right to refuse treatment, the politics of juvenile justice, and the court as a socio-legal institution. 3 Cr.

CRJ 589 Police Problems (A). Discusses specific problems of law enforcement and policing in contemporary American society. Emphasizes the development, nature and function of law enforcement as it relates to criminal justice. Covers topical issues and problems such as ethics, corruption, deadly force and civil liabilities. 3 Cr.

CRJ 590 Special Topics (A). Enables students to learn the basic operations of a criminal justice agency and participate in agency activity. Involves group discussion, weekly log and final report. 3 Cr.

CRJ 593 Seminar in Criminal Justice (A). Allows students to gain an understanding of a selected criminal justice issue. Utilizes research skills to prepare and present research projects, and defend findings to an audience of critical judges. May be repeated with chair's permission. 3 Cr.

CRJ 594 Criminology (A). Provides a review and critical analysis of the major criminological theories including the classical school; biological school; and psychological, sociological and psychoanalytic orientations, including economic determinism. Considers various forms of criminality, as well as studies dealing with the frequency of crime in different places at different times. 3 Cr.

CRJ 599 Independent Study in Criminal Justice (A). To be defined in consultation with the instructor-sponsor and in accordance with college policy prior to registration. May be repeated with chair's permission. 1-6 Cr.

DEPARTMENT OF THE EARTH SCIENCES

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While the Department of the Earth Sciences does not have a graduate degree program, its graduate course offerings may be applied as requirements and/or electives in degree programs as determined through advisement.