College of Business, Information and Decision Sciences.

CIS 4305. Adv Bus Systems Development.

Advanced Business Systems Development (3-0) The application of concepts acquired in systems analysis and design. Students will analyze the needs of an organization and design an information system for that organization. Particular emphasis will be placed on the need for auditing and control of that system. Coverage will include dealing with problems of installation and security.

CIS 4370. Business Data Communications.

Business Data Communications (3-0) An introduction to network components, transmissions links, link control, protocols, network typologies, error detection and correction methods, network management and security, local area networks, electronic commerce, virtual private networks, use of the Internet in business.

CIS 4385. Intro to Info Security Sys.

Information systems must be protected from hackers and crackers trying to break into the systems and immobilize e-businesses and other sites using, for example, denial of service attacks. Electronic business transactions and other forms of online communications necessitated the need for security, integrity, and privacy of our data and communication resources. Increasingly, both internal and external computer and network threats motivate the need for implementing cost-effective security apparatuses to protect our information and information systems assets. The course introduces students to the theory and practice of security, aspects of information systems security such as access control, hacks and attacks, systems and program intrusion detection, cryptography, networks and distributed systems security, worms and viruses, and internal secure applications. Students explore key security threats, solutions and legal issues, and implement network security tools in hands-on lab exercises. Upon completion, the student will have a better understanding of computer and network security issues.

College of Liberal Arts: Intel Nat'l security Studies.

INSS 3343. Crime and Border Security.

This course focuses on the impact of globalization on crime and border security. Special emphasis will be placed on human, drug, and arms trafficking along the U.S.-Mexico border, but will also provide comparative examples from border regions around the world. The role of drug cartels, criminal gangs, and corruption will be addressed. Attention will also be given to the U.S.-Canadian border. Other serious crime such as fraud, identity theft, and cybercrime will be explored. This course will also review current and past strategies for maintaining border security and limiting the flow of criminal activity into the United States.

INSS 3348. Cyberspace & National Security.

This course will critically examine the ubiquitous nature of the cyber domain in national security. Fundamental principles and case studies in cyber warfare will be covered in order to explain the importance of cyber power in national military strategy and in joint/combined operations, including defensive and offensive operations in cyberspace. There will be a particular emphasis on Russian and Chinese cyber warfare capabilities and operations.

Criminal Justice.

CRIJ 4302. Cyber Crime.

CRIJ 4302: Cyber Crime (3-0) In addition to the history of computer and Internet crime, this course addresses how computers have become tools and targets of criminal activity and how they represent national security threats. The topics covered include hardware and software network components, vulnerable infrastructures and readiness for cyber terrorism.