

ITE- INFORMATION TECHNOLOGY (ITE)

***Course Fees are Per Credit Hour**

ITE 249. Introduction to Information Security. (3 Credits)

An introduction to both the technical and management aspects of information security. The course will provide a foundation for understanding the principles of protecting information assets, determining the levels of protection required, response, forensics, and recovery from security incidents, and developing a useful information security system with appropriate defenses, intrusion detection, auditing, and reporting. Prerequisites: CS 135 and any Area III math included in the General Education Component (with a grade of C or higher in both). (Fall, Spring)

Course Fees: \$90

ITE 359. Digital Forensics. (3 Credits)

Digital forensics concerns the acquisition and investigation of evidence from all devices capable of storing digital data. The class introduces the process of forensic investigation, chain of custody, and forensic analysis of digital storage and network traffic from personal computers, enterprise systems, embedded devices, and mobile devices. Prerequisite: ITE 249. (Spring)

Course Fees: \$90

ITE 369. Usable Privacy and Security. (3 Credits)

This course investigates privacy and security from a user-centered point of view. How do people think about privacy and security? How do they interact with current applications and solutions? What should be considered in designing user-friendly security systems? This course introduces students to a variety of usability and user interface issues related to privacy and security and examines potential designs and solutions. Prerequisite: ITE 249 (with a grade of C or higher). (Fall)

Course Fees: \$90

ITE 379. Secure Software Development. (3 Credits)

Focuses on best practices and standards for secure software development. Topics include the secure software development life cycle, analyzing common threats to software security, code analysis, penetration testing, and secure software development techniques for network, web, and cloud-based applications. Prerequisites: CS 155 or CIS 225 with a grade of C or higher (Fall).

Course Fees: \$90

ITE 449. Infrastructure Security. (3 Credits)

Examines the issues related to infrastructure security. Topics include network security threats, network authentication and identification, network security protocols, firewalls, intrusion detection systems, wireless security, email security, network and cloud-based application security, and network storage security. Prerequisite: ITE 249; CIS 344 or CS 440 (with a grade of C or higher in all). (Spring)

Course Fees: \$90