



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Information Security

CSE 4471

Credit Hours:

3.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Course Description:

Introduction to security of digital information; threats and attacks; regulations; risk management; attack detection and response; cryptography; forensics; technical training and certifications.

Prerequisites and Co-requisites:

Prereq: 2231 and 2321; and enrollment in CSE, CIS, ECE, or Data Analytics major, or Information Security or CIS minor.

Course Goals / Objectives:

- Be competent with information security governance, and related legal and regulatory issues
 - Be competent with understanding external and internal information security threats to an organization
 - Be competent with information security awareness and a clear understanding of its importance
 - Be competent with how threats to an organization are discovered, analyzed, and dealt with
 - Be familiar with a high-level understanding of how information security functions in an organization
 - Be familiar with the structure of policies, standards and guidelines
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Course Topics:

- Information security, roles within an organization
 - Legal, regulatory issues
 - Threats, vulnerabilities, exploits
 - Governance, policy, standards, guidelines
 - Risk management
 - Firewalls, Intrusion Detection, Incident Response, Forensics, Honeypots, VPN, Vulnerability Scanning
 - Cryptography
 - Access Control
 - Physical Security, Personnel, Training, Education, Awareness, Certification
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Designation:

Elective