Department of Computer Science and Engineering

Department
Calendar
News
Research
Undergrad Program
Graduate Program
People
Courses
about
class schedule
course syllabi
osu course bulletin
university registrar
Computing Services
Faculty Recruiting
Diversity Programs

Search Go

Back to CSE Course List

CSE 551: Introduction to Information Securi

Description

Introduction to security of digital information including: threats, regulations, management, attack detection and response, cryptography, forensics, and tec training and certification.

Level, Credits, Class Time Distribution, Prerequisites

Level	Credits	Class Time Distribution	Prerequisites
U	3	3 cl	314 or 321 or 502 or AMIS 531 or equivalent second writing course; or permission of inst

Quarters Offered

- Wi

General Information, Exclusions, Cross-listings, etc.

Intended Learning Outcomes

- Master information security governance, and related legal and regulato
- Master understanding of external and internal information security thre organization.
- Be familiar with the structure of policies, standards and guidelines.
- Be familiar with information security awareness and a clear understand importance.
- Be familiar with how threats to an organization are discovered, analyze dealt with.

Texts and Other Course Materials

- *Principles of Information Security, Thomson/Course Technology, ISBN 0 06318-1, 2003* - Michael E. Whitman and Herbert J. Mattord
- *Security Architecture: Design, Deployment and Operations, McGraw-Hi Media; ISBN: 0072133856; 1st edition (July 30, 2001) (Optional)* - Christ King, Ertem Osmanoglu, Curtis Dalton

Topics

Number of Hours	Topic
3	Primer: information security and network basics; information sec its role in an organization; legal and regulatory issues; governmer homeland security initiatives and how they impact business and i
3	Threats; internal threats: employees, contractors, third parties; threats: criminals, corporate espionage, hackers, cyber warfare, terrorism; psychology of computer criminals and info-terrorists a associated ethical issues
6	Governance, policies, standards, and guidelines; architecture; aw
10	Risk management, vulnerability assessment and intrusion detecti malicious code protection; content filtering; internet DMZ and re components; incident response; application security
3	Cryptography; forensics
3	Information security directions; technical training and certificati what's next
2	Review and exam

Representative Lab Assignments

- None

Grades

Homework assignments	15%
Paper and presentation	15%
Participation	10%
Midterm exam	20%
Final exam	40%

Relationship to ABET Criterion 3

a	b	c	d	e	f	g	h	i	j	k
*	*	*	*	*	**	*	*	*	**	*

detail

Relationship to CSE Program Outcomes/Objectives

1a	1b	1c	2a	2b	2c	3a	3b	4a	4b	5a	5b	5c

detail

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