

CIST 1601 - Information Security Fundamentals (version 201003L)

Course Title Course Development Learning Support

Information Security Fundamentals Standard No

Course Description

This course provides a broad overview of information security. It covers terminology, history, security systems development and implementation. Student will also cover the legal, ethical, and professional issues in information security.

Pre-requisites

Pre-requisites: None

Regstr. Co-requisites

Regstr. Co-requisites: None

True Co-requisites

True Co-requisites: None

Course Length

	Lecture Contact Time	Regular Lab Type	Reg. Lab Contact Time	Other Lab Type	Oth. Lab Contact Time	Total Contact Hrs
Contact Hours Per Week	2 hrs	Lab	2 hrs	N/A	0 hrs	4 hrs
Contact Min/Hrs Per Semester	1500 min		1500 min		0 min	60 hrs
	Lecture Credit Hours	Lab Credit Hours	Total Credit hours	WLU		
Semester Credit Hours	2	1	3	105		

Competencies & Outcomes

Order	Description	Learning Domain	Level of Learning
1	Information Security Terminology		
1	Define key terms in information security terminology.	Cognitive	Knowledge
2	Information Security		
1	State the components and characteristics of an information system.	Cognitive	Knowledge
2	Identify threats to an information system.	Cognitive	Knowledge
3	Identify types of attacks to an information system.	Cognitive	Knowledge
3	Legal, Ethical, and Professional Issues Related to Information Security		

Order	Description	Learning Domain	Level of Learning
1	List laws relevant to information security.	Cognitive	Knowledge
2	List ethical and professional issues relevant to information security.	Cognitive	Knowledge
3	Identify international laws and legal bodies.	Cognitive	Knowledge

4 **Security Policy and Procedures**

Order	Description	Learning Domain	Level of Learning
1	Demonstrate an understanding of implementing security in systems' project management.	Psychomotor	Guided Response
2	Discuss technical and non-technical topics of implementation.	Cognitive	Comprehension
3	Discuss the maintenance of the security policy.	Cognitive	Comprehension

5 **Information Security Components**

Order	Description	Learning Domain	Level of Learning
1	Identify key physical threats to the information facility.	Cognitive	Knowledge
2	Identify and state the purpose of firewalls, intrusion detection systems and other security devices.	Cognitive	Knowledge
3	Identify cryptography and encryption-based solutions.	Cognitive	Knowledge
4	Identify access control devices.	Cognitive	Knowledge
5	Discuss security mobile and portable systems.	Cognitive	Comprehension

6 **Identification, Assessment and Control of Risks Related to Information Security**

Order	Description	Learning Domain	Level of Learning
1	State the steps in risk identification and assessment.	Cognitive	Comprehension
2	Identify risk control strategies.	Cognitive	Knowledge
3	Identify major security models.	Cognitive	Knowledge