

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

Co-requisites

Co-requisites: None

Course Length

	Minutes	Contact Hour	Semester Credit	WLU
Lecture:	1500	30		
Lab 2:	1500	30		
Lab 3:	0	0		
Total:	3000	60	3	
Semester Credit Hours:			3	105
Breakout Detail of Lab 3				
Practicum/Internship	0	0		
Clinical	0	0		

Competencies & Outcomes

Order	Description	Lecture	Lab 2	Lab 3	Total Min	Credit Hrs	Pract Intern	Clinical
1	Information Security Terminology	200	0	0	200	0	0	0
Order	Description						Learning Domain	Level of Learning
1	Define key terms in information security terminology.						Cognitive	Knowledge
2	Information Security	200	400	0	600	0	0	0
Order	Description						Learning Domain	Level of Learning
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	250	250	0	500	0	0	0

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** 250 250 0 500 0 0 0

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** 350 350 0 700 0 0 0

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** 250 250 0 500 0 0 0

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

Competency Totals: Lecture 1500 Lab 2 1500 Lab 3 0 Total Min 3000 Cred Hrs 3 Pract Intern 0 Clinical 0