

CIST 2601 - Implementing Operating Systems Security (version 201003L)

Course Title Course Development Learning Support

Implementing Operating Systems Security Standard No

Course Description

This course will provide knowledge and the practical experience necessary to configure the most common server platforms. Lab exercises will provide students with experience of establishing operating systems security for the network environment.

Pre-requisites

(CIST 1401 or 2451 or 2441)

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CIST 1601 - Information Security Fundamentals (201003L)

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	4 hrs	N/A	0 hrs	6 hrs
Contact Min/Hrs Per Semester	1500 min		3000 min		0 min	90 hrs
	Lecture Credit Hours	Lab Credit Hours	Total Credit hours	WLU		
Semester Credit Hours	2	2	4	142.5		

Competencies & Outcomes

Order Description

1 Workstation Security

Order	Description	Learning Domain	Level of Learning
1	Demonstrate an understanding of and apply the components of physical workstation security.	Psychomotor	Guided Response
2	Demonstrate an understanding of and apply the concepts and use of software workstation security including logins, passwords and antivirus.	Psychomotor	Guided Response
3	Demonstrate an understanding of the components of wireless security.	Psychomotor	Guided Response

2 Server Security

Order	Description	Learning Domain	Level of Learning
1	Demonstrate an understanding of and apply the components of physical security for servers.	Psychomotor	Guided Response

2	Demonstrate an understanding of and apply the software security components of servers including firewalls, decryption, and authentication.	Psychomotor	Guided Response
3	Demonstrate an understanding of and apply file, directory, share and account security on servers.	Psychomotor	Guided Response

3 Information Infrastructure Security

Order	Description	Learning Domain	Level of Learning
1	Demonstrate an understanding of infrastructure security including wiring, closets, and physical components.	Psychomotor	Guided Response
2	Demonstrate an understanding of software infrastructure security including hardwire firewalls and proxy services.	Psychomotor	Guided Response
3	Demonstrate an understanding of basic web security, VPN's and e-mail security.	Psychomotor	Guided Response

4 Network Security

Order	Description	Learning Domain	Level of Learning
1	Design and install a secure network on at least two common server platforms.	Psychomotor	Mechanism