

CIST 2413 - Microsoft Server Infrastructure (version 201003L)

Course Title Course Development Learning Support

Microsoft Server Infrastructure Standard No

Course Description

Provides students with knowledge and skills necessary to install, configure, manage, support and administer a Microsoft network infrastructure.

Pre-requisites

Pre-requisites: All Required

Program Admission

Co-requisites

Co-requisites: None

Course Length

	Minutes	Contact Hour	Semester Credit	WLU
Lecture:	1500	30		
Lab 2:	3000	60		
Lab 3:	0	0		
Total:	4500	90	4	

Semester Credit Hours:	4	142.5
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Breakout Detail of Lab 3

	Minutes	Contact Hour
Practicum/Internship	0	0
Clinical	0	0

Competencies & Outcomes

Order	Description	Lecture	Lab 2	Lab 3	Total Min	Credit Hrs	Pract Intern	Clinical
1	Microsoft Server	100	200	0	300	0	0	0
Order	Description						Learning Domain	Level of Learning
1	Identify Server Editions, current and new technologies, and various server roles and features.						Cognitive	Knowledge
2	Install and configure Microsoft Server.						Psychomotor	Guided Response
2	IP Addressing and Services	300	600	0	900	0	0	0
Order	Description						Learning Domain	Level of Learning
1	Explain, compare and configure IP addressing formats.						Cognitive	Knowledge
2	Configure various IP options including subnetting, supernetting and alternative configuration.						Cognitive	Application
3	Describe , configure and manage Dynamic Host Configuration Protocol (DHCP).						Cognitive	Comprehension

4	Discuss and configure computer network routing.	Cognitive	Comprehension
5	Discuss and configure IPSec.	Cognitive	Comprehension

3 **Name Resolution** 300 600 0 900 0 0 0

Order	Description	Learning Domain	Level of Learning
1	Explain the concepts and principles of name resolution.	Cognitive	Knowledge
2	Describe , configure and manage a Domain Name System (DNS) server.	Cognitive	Knowledge
3	Configure DNS zones, records, replication and other related options.	Cognitive	Application
4	Discuss and configure name resolution for client computers.	Cognitive	Comprehension

4 **Network Access** 300 600 0 900 0 0 0

Order	Description	Learning Domain	Level of Learning
1	Explain the purpose and principles of remote access.	Cognitive	Knowledge
2	Discuss and configure remote access services and policies.	Cognitive	Comprehension
3	Discuss and configure network access and security.	Cognitive	Comprehension
4	Discuss and configure wireless network access and security.	Cognitive	Comprehension

5 **File and Print Services** 250 500 0 750 0 0 0

Order	Description	Learning Domain	Level of Learning
1	Describe the purpose and function of File and Print Services.	Cognitive	Comprehension
2	Discuss , implement and monitor file services.	Cognitive	Comprehension
3	Plan and configure Distributed File System (DFS).	Psychomotor	Guided Response
4	Discuss and implement backup and restoration procedures.	Cognitive	Comprehension
5	Discuss , implement and monitor print services.	Cognitive	Comprehension
6	Describe and implement security for file and print services.	Cognitive	Comprehension

6 **Network Infrastructure** 250 500 0 750 1 0 0

Order	Description	Learning Domain	Level of Learning
1	Explain and implement server and network monitoring services.	Cognitive	Knowledge
2	Prepare and administer Network and Server Update Services.	Psychomotor	Guided Response
3	Describe and configure network infrastructure security techniques and procedures.	Cognitive	Comprehension
4	Identify network infrastructure support services.	Cognitive	Knowledge

	Lecture	Lab 2	Lab 3	Total Min	Cred Hrs	Pract Intern	Clinical
Competency Totals:	1500	3000	0	4500	4	0	0