

**CIST 2414 - Microsoft Server Administrator ( version 201003L )**

Standard Institutionally Developed College: N/A

EDGE Compatible: No

**Pre-requisites: All Required**

Program Admission

**Co-requisites: None****Course Description**

Provides students with knowledge and skills necessary to install, configure, manage, support and administer Windows Server. Topics include server deployment, server management, monitor and maintain servers, application and data provisioning, and business continuity and high availability.

**Course Length**

	Minutes	Contact Hour	Semester Credit
Lecture:	1500	30	
Lab 2:	3000	60	
Lab 3:	0	0	
Practicum/Internship:	0	0	
Clinical:	0	0	
<b>Total:</b>	<b>4500</b>	<b>90</b>	<b>4</b>

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**Semester Credit Hours:** 4
**Competencies**

Order	Description	Lecture	Lab2	Lab3	Practicum/ Internship	Clinical	Total Minutes	Semester Credit Hrs
1	Server Deployment	400	800	0	0	0	1200	
2	Server Management	300	600	0	0	0	900	
3	Monitor and Maintain Servers	300	600	0	0	0	900	
4	Application and Data Provisioning	250	500	0	0	0	750	
5	Business Continuity and High Availability	250	500	0	0	0	750	
	<b>Totals for Course CIST 2414 - Microsoft Server Administrator ( version 201003L ):</b>	<b>1500</b>	<b>3000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4500</b>	<b>4</b>

**Learning Outcomes****Server Deployment**

Order	Description	Learning Domain	Level of Learning
1	Plan and implement server installations and upgrades.	Psychomotor	Mechanism
2	Plan and implement infrastructure services and server roles including IP address, name resolution, network access, directory services, application services, certificate services, file and print server roles and more.	Psychomotor	Mechanism

**Server Management**

Order	Description	Learning Domain	Level of Learning
1	Plan and implement server management strategies including remote services and server management technologies.	Psychomotor	Mechanism
2	Plan and implement for delegated administration including Active Directory configuration.	Psychomotor	Mechanism
3	Plan and implement group policy strategy.	Psychomotor	Mechanism

**Monitor and Maintain Servers**

Order	Description	Learning Domain	Level of Learning
1	Implement patch management strategy including Windows Server Update Services (WSUS) and other methods.	Psychomotor	Mechanism
2	Monitor servers for performance evaluation and optimization.	Psychomotor	Mechanism
3	Monitor and maintain security including remote access, network access, server security, firewall configuration, authentication and authorization, data security, auditing and more.	Psychomotor	Mechanism

**Application and Data Provisioning**

Order	Description	Learning Domain	Level of Learning
1	Demonstrate an understanding of provisioning applications including virtualization, terminal server infrastructure, resource allocation, application deployment and other options.	Psychomotor	Guided Response
2	Demonstrate an understanding of provision data including shared resources, offline data access and more.	Psychomotor	Guided Response

**Business Continuity and High Availability**

Order	Description	Learning Domain	Level of Learning
1	Plan and design storage solutions that enhance and support business continuity and high availability.	Psychomotor	Mechanism
2	Plan for high availability and redundancy.	Cognitive	Application
3	Develop and implement a backup and recovery plan.	Cognitive	Application

**References**

Order	Reference Type	Description
1	Book with Author(s) Listed	Microsoft. (2008). Microsoft server administrator package. (n/a). New York, NY: Wiley & Sons.
2	Book with Author(s) Listed	Microsoft. (2008). Microsoft server enterprise administrator package. (n/a). New York, NY: Wiley & Sons.
3	Book with Author(s) Listed	Gibson, D.. (2008). MCITP Microsoft server administrator. (n/a). New York, NY: Wiley & Sons.
4	Book with Author(s) Listed	Johnson. (2008). MCITP Microsoft server enterprise administrator. (n/a). New York, NY: Wiley & Sons.
5	Other	Cengage: <a href="http://www.cengage.com/search/productOverview.do?Ntt=1423902386 9781423902386&amp;Ntk=all P_Isbn13&amp;Ns=P_CopyRight_Year 1&amp;N=+16">http://www.cengage.com/search/productOverview.do?Ntt=1423902386 9781423902386&amp;Ntk=all P_Isbn13&amp;Ns=P_CopyRight_Year 1&amp;N=+16</a>