

Microsoft Systems Administration

Contact: [Randy Larson](#) (623)-935-8077

Award Type: **Certificate of Completion**

Effective First Year/Term: 2004 Fall

Overall G.P.A.: 2.00

Initiating College: **Chandler-Gilbert Community College**

Program Availability: Shared by: CGCC, EMCC, GCC, GWCC, PC (Mor), PVCC, SCC

Total Credits: 20-21

Major Code: **5852**

Faculty Initiator: Deidre Grafel

CIPS Code: 11.09.01

Instructional Council: Computer Information Systems (12)

Development Date: 10-14-03

District Curriculum Committee Online Agenda Date: 3-29-04 to 4-1-04

MCCCD Governing Board Approval Date: 5-25-04

Description: The Certificate of Completion in Microsoft Systems Administration provides training for professionals who implement, manage, and troubleshoot existing network and system environments based on current Microsoft Server operating systems. The courses in the program also prepare for Microsoft Certified Product Specialist (MCP), Microsoft Certified Systems Administrator (MCSA), and Microsoft Certified Systems Engineer (MCSE) examinations.

Job Description: The Microsoft Certified Systems Administrator (MCSA) will be required to implement, to manage, and to troubleshoot networks containing messaging services, file and print servers, and firewalls in addition to configuring Internet access, to enabling remote access for users, and to managing client computers.

Program Notes:

Students must earn a grade of "C" or better for all courses required within the program.

Overall program minimum G.P.A. = 2.00.

+ indicates course has prerequisites and/or corequisites.

++ indicates any module.

Admission Criteria: None.

Program Prerequisites: Credits:3

CIS105	Survey of Computer Information Systems	3
OR		
	Permission of Department or Division	

Required Courses: Credits: 20-21

	BPC/CIS121AB	MS-DOS Operating System	1
+	BPC170	Computer Maintenance I: A+ Prep	3
+	CIS190	Introduction to Local Area Networks (3) OR	
	CNT140	Cisco Networking Basics (4) OR	
	MST140	Microsoft Networking Essentials (3)	3-4
	MST150++	Any MST150 course	3
+	MST152++	Any MST152 course	4
+	MST155	Implementing Windows Network Infrastructure	3
+	MST232	Managing a Windows Network Environment	3

Restricted Electives: None.

Free Electives: None.

Program Competencies

1. Implement DOS commands and functions. (BPC/CIS121AB)
2. Troubleshoot problems with various common hardware and software configurations. (BPC170)
3. Identify the hardware and software components of a local area network. (CIS190, or CNT140, or MST140)
4. Analyze local area network (LAN) topologies and communication standards. (CIS190, or CNT140, or MST140)
5. Create and manage user and group accounts. (Any MST150++ course, any MST152++ course)
6. Install, configure, and optimize Windows network operating system. (Any MST150++ course, any MST152++ course)
7. Secure network resources with share permissions and NT New Technology File System (NTFS) permissions. (Any MST152++ course)
8. Implement system policies and user profiles. (Any MST152++ course)
9. Monitor network resources and events. (MST152++, MST155, MST232)
10. Manage shared network resources. (MST152++, MST232)
11. Install and configure Microsoft Windows Active Directory services. (MST155, MST232)
12. Install and configure Dynamic Host Configuration Protocol (DHCP) and Dynamic Name System (DNS) in a Microsoft Windows network infrastructure. (MST155, MST232)
13. Manage network security. (MST232)
14. Configure and support remote access. (MST232)
15. Manage a Domain Name Server (DNS). (MST232)

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