



All information on schedule subject to change. For more information: visit <http://bii.mc.maricopa.edu>
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 MCC Downtown Center, 145 North Centennial Way, Mesa, AZ. 85201

Online Registration is not available for our classes; please call to register.



BPC170 Computer Maintenance I: A+ Essentials Prep 3 credits

Technical aspects of the microcomputer, including system setup (hardware and software) and basic troubleshooting. Emphasizes troubleshooting, use of tools, hardware components and hardware and software interfaces, and operating systems. Students use Cisco certified course IT Essentials I. Course content prepares students for Computer Technology Industry Association (CompTIA) A+ certification exam. PR: None

Sections 29419 & 29423 are Full

Section	Location	Days	Times	Class Dates
29419	MCC/DTC Classroom 407	MW	6:00-9:40p	08/24-10/14
29423	MCC/DTC Classroom 407	TR	6:00-9:30p	08/25-10/15
29121	MCC/DTC Classroom 407	S	8:00-11:40a	08/29-12/12
29421	MCC/DTC Classroom 407	MW	6:00-9:40p	10/19-12/09

BPC270 Computer Maintenance II: A+ Technician Prep 3 Credits

Advanced technical aspects of maintaining and servicing computers. Emphasis placed on installation, periodic maintenance, diagnosis, and/or problem resolution. Helps prepare students for the CompTIA A+ technician examinations including Information Technology (IT) field technician, remote support technician and bench technician. PR: BPC170 with grade of C or better, or permission of instructor.

Section	Location	Days	Times	Class Dates
57926	MCC/DTC Classroom 450	MW	6:00-9:30p	08/25-10/15
29581	MCC/DTC Classroom 450	MW	6:00-9:40p	10/19-12/09
29583	MCC/DTC Classroom 450	TR	6:00-9:40p	10/20-12/17

TQM240 Project Management in Quality Organizations 3 Credits

Presents methods for quality organizations in how to plan and schedule a project in use of Critical Path Method (CPM) and Program Evaluation and Review Technique (PERT) techniques and software to monitor and control projects. PR: None

Section	Location	Days	Times	Class Dates
29644	MCC/DTC Classroom 450	MW	6:00-8:45p	08/24-10/14

Cabling and Home Network Integration

CIS266 Network Service and Support 4 credits

Prevention, diagnosis, and resolution of hardware-related problems network professionals encounter. Serves as a capstone course to link service and support skills in multi-platform environments. The course focuses on hardware issues in relationship to NetWare, Microsoft, and Linux. Students learn practical skills that optimize resources for networking products through extensive hands-on labs and practical exercises. PR: BPC170 and CIS191 (any module) or CIS175DB, and CIS245 or MST152, or any UNIX/Linux course.

Section	Location	Days	Times	Class Dates
29485	MCC/DTC Classroom 404	MW	6:00-10:30p	10/19-12/09

Network Security and Information Assurance

CIS270 Essentials of Network and Information Security 3 credits

Addresses threats to security of information systems; responsibilities and basic tools for information security, including communication security, infrastructure security, organizational security and basic cryptography. Introduction to the language of network security and hardware, software and firmware components of an information security system for local, metropolitan, enterprise, and wide area networks. Helps prepare students for the CompTIA Security+ exam and the GIAC Security Essentials Certificate (GSEC). PR: CNT150, or CIS175DB or MST150 any module, or department approval.

Section	Location	Days	Times	Class Dates
29487	MCC/DTC Classroom 404	MW	6:00-9:40p	10/19-12/09
29489	Internet	Internet	Internet	08/22-12/18

CNT186 Cisco Fundamentals of Wireless LANs 4 credits

Design, planning, implementation, operation, and troubleshooting of wireless networks. Overview of technologies, security, and design best practices with emphasis on hands-on skills in wireless LAN (local area network) setup and troubleshooting, 802.11a & 802.11b technologies, products and solutions, site surveys, resilient WLAN design, installation and configuration, WLAN Security - 802.1x, EAP (Extensible Authentication Protocol), LEAP (Light Extensible Authentication Protocol), WEP (Wired Equivalent Privacy), SSID (Service Set Identifier), and vendor interoperability strategies. Prepare students to earn Cisco Wireless LAN Support Specialist designation and to take the Certified Wireless Network Administrator (CWNA) exam. PR: CNT140, or department approval.

Section	Location	Days	Times	Class Dates
26637	MCC/DTC Classroom 407	TR	6:00-10:30p	10/20-12/17

CIS247DA Cyber Forensics & Incident Handling 3 credits

Forensic and advanced incident handling techniques in a lab setting with hands-on skills in incident response, forensic preparation, Windows forensics, Linux forensics, data recovery and analysis, malicious code analysis, law enforcement interaction and case law, corporate and managerial legal concerns and direction. Helps prepare students for GIAC Certified Forensic Analyst (GCFA) Certification and IACIS Certified Forensic Computer Examiner (CFCE) certification. PR: CIS270.

Section	Location	Days	Times	Class Dates
66165	MCC/DTC Classroom 405	S	8:00-11:55a	08/29-12/12

CISCO CERTIFIED NETWORK ADMINISTRATOR

The following 4 Cisco classes are to prepare you for the CCNA examination.

CNT140AA Cisco Networking Fundamentals 4 credits

Introduction to the computer networking field. Covers network terminology and protocols, communication fundamentals in Data networks and the Internet. Includes study of the Open Systems Interconnection (OSI) model, using a top down approach, cabling and cabling tools, basic Cisco router, configuration, Ethernet technologies, Internet Protocol (IP) addressing, and overview of Internet Protocol version 6 (IPv6), basic configuring and testing of the network, and network standards. Preparation for the Cisco Certified Network Associate (CCNA) examination. PR: None

Sections 26627 & 26629 are full

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26627	MCC/DTC Classroom 402	MW	6:00-10:30p	08/24-10/14
73442	MCC/DTC Classroom 404	MW	6:00-10:30p	08/24-10/14
26617	MCC/DTC Classroom 402	TR	8:00a-12:10p	08/25-10/15
26629	MCC/DTC Classroom 402	TR	6:00-10:10p	08/25-10/15

CNT150AA Cisco Routing Protocols and Concepts 4 credits

Knowledge of skills to install, configure, customize, maintain and troubleshoot Cisco routers utilizing Advanced Internet Protocol (IP) addressing techniques, Variable Length Subnet Masking (VLSM), distance vectored and Link State dynamic routing protocols, Routing Internet Protocol version 1 (RIPv1) and version 2 (RIPv2), Enhanced Interior Gateway Routing Protocol (EIGRP), Single-area Open Shortest Path First (OSPF), and understanding the structure and behavior of routing tables. Preparation for Cisco certification examination. PR: CNT140AA

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26631	MCC/DTC Classroom 402	MW	6:00-10:30p	10/19-12/09
26619	MCC/DTC Classroom 402	TR	8:00a-12:30p	10/20-12/17
26633	MCC/DTC Classroom 402	TR	6:00-10:30p	10/20-12/17

CNT160AA Cisco Local Area Networking (LAN) Switching and Wireless 4 credits

Comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Learn about the hierarchical network design model and how to select devices for each layer. Configure a switch for basic functionality and implement Virtual Local Area Networks (VLAN), VLAN Trunking Protocol (VTP), and Inter-VLAN routing in a converged network. Implementation of Spanning Tree Protocol (STP) in a converged network and a Wireless LAN (WLAN) in a small to medium network. Comprehensive hands-on labs. Preparation for Cisco certification examination. PR: CNT140AA

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
57932	MCC/DTC Classroom 403	MW	6:00-10:30p	08/24-10/14
58706	MCC/DTC Classroom 403	TR	8:00a-12:10p	08/25-10/15
26645	MCC/DTC Classroom 403	TR	6:00-10:10p	08/25-10/15

CNT170AA Cisco Accessing the Wide-Area Network (WAN) 4 credits

Wide-Area Network (WAN) technologies and network services required by converged applications in Enterprise Networks. Cisco Enterprise Composite model (ECM) to introduce integrated network services and selection of appropriate devices and technologies to meet ECM requirements. Implement and configure common data link protocols and apply WAN security concepts, principles of traffic management, access control and addressing services. Detect, troubleshoot, and correct common enterprise network implementation issue: Includes comprehensive hands-on labs. Preparation for Cisco certification examination. PR: CNT140AA, CNT150AA, and CNT160AA

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26649	MCC/DTC Classroom 403	MW	6:00-10:30p	10/19-12/09
26647	MCC/DTC Classroom 403	TR	8:00a-12:30p	10/20-12/17
26651	MCC/DTC Classroom 403	TR	6:00-10:30p	10/20-12/17

CISCO CERTIFIED NETWORK PROFESSIONAL

The following 4 Cisco classes are to prepare you for the CCNP examination.

CNT200 CCNP: Building Scalable Cisco Internetworks (BSCI) 4 credits

Development of knowledge and skills needed to manage Internet Protocol (IP) traffic and access, understand scalable internetworks and Quality of Service (QoS), configure advanced routing protocols Border Gateway Protocol [BGP], Intermediate System to Intermediate System [IS-IS], Enhanced Interior Gateway Routing Protocol [EIGRP], Open Shortest Path First [OSPF], as well as multicast routing, Internet Protocol (IPv6), and perform advanced IP addressing configuration, (Dynamic Host Configuration Protocol (DHCP). Preparation for Cisco Certified Network Professional (CCNP) exam. PR: CNT170 or CCNA industry certification CR: CNT210 and CNT220

Section 26639 is full

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26639	MCC/DTC Classroom 450	MW	6:00-10:30p	08/24-10/14
73443	MCC/DTC Classroom 450	TR	6:00-10:30p	08/25-10/15

CNT210 Cisco Networking Remote-Access Networks 4 credits

Development of knowledge and skills in implementing secure enterprise-class network service for teleworkers and branch sites. Students will learn how to secure and expand the reach of an enterprise network with focus on VPN configuration and securing network access. Preparation for Cisco Certified Network Professional (CCNP) exam. PR: CNT170 or CCNA industry certification, or department approval CR: CNT200 and CNT220.

Class is full

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26641	MCC/DTC Classroom 403	MW	6:00-10:30p	10/19-12/09

CNT220 CCNP: Building Multilayer Switched Networks 4 credits

Development of knowledge and skills in building campus networks using advanced and multi-layer switching technologies. Preparation for Cisco Certified Network Professional (CCNP) exam. PR: CNT170 or CCNA industry certification CR: CNT200 and CNT210

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Section in Spring 2010				

CNT230 Cisco Network Troubleshooting 4 credits

Introduction to optimizing and providing effective Quality of Service (QoS) techniques in converged networks operating voice, wireless and security applications. Topics covered include implementing a Voice over Internet Protocol (VoIP) network, implementing QoS on converged networks, specific Internet Protocol (IP) QoS mechanisms for implementing the DiffServ QoS model, Auto QoS, wireless security and basic wireless management. Preparation for the Cisco Certified Network Professional (CCNP) exam. PR: CNT200, CNT210 and CNT220 or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Section in Spring 2010				

OTHER CISCO COURSES

CNT175	Cisco Certified Network Associate Security	4 Credits
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Associate-level knowledge and skills required to secure Cisco networks. Development of a security infrastructure, identification of threats and vulnerabilities to networks. Mitigation of security threats. Core security technologies. Installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices. Competency in the technologies that Cisco uses in its security structure. PR: CNT170 or CNT170AA or Certified Cisco Networking Associate (CCNA) certification or permission of Instructor.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
72315	MCC/DTC Classroom 405	TR	6:00-10:30p	10/20-12/17

CNT240	Cisco Voice over IP	4 credits
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Introduction to packet telephony for both Enterprise and Service Provider networks. Covers Packet Voice Technologies, Configuring Voice Interfaces, Voice Dial Peers, VoIP Signaling and Call Control. Includes data and voice integration solutions at the network-access level. PR: CNT170 or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Class in Spring 2010				

MICROSOFT WINDOWS ADMINISTRATION COURSES

CIS175DB	Implementing Microsoft Windows 2000 Professional (may also be taken as MST150)	3 credits
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Installation, configuration and administration of Microsoft Windows 2000 Professional in a workgroup and domain environment, with emphasis on peer-to-peer networking. Covers user and group accounts, disk management, resource sharing and management, resource monitoring, printers, mobile computing, security and disaster protection are also covered. Covers content of Microsoft exam 70-210. PR: BPC170, CIS190 or CNT140 and/or department approval. CIS109AM recommended.

Class is full

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
29477	MCC/DTC Classroom 404	TR	6:00-9:30p	08/25-10/15

MST150	Microsoft Windows Professional (may also be taken as CIS175DB)	3 credits
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Knowledge and skills necessary to perform day-to-day administration tasks in a Microsoft Windows-based network. Preparation for Microsoft certification examination. PR: None. CIS190, or CNT140, or MST140 suggested but not required.

Class is full

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26615	MCC/DTC Classroom 404	TR	6:00-9:30p	08/25-10/15

MST253	Designing a Microsoft Windows 2000 Directory Services Infrastructure	3 credits
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Information and skills necessary to design a Microsoft Windows 2003 directory services infrastructure in an enterprise environment. Includes key decision points for naming, delegation authority, domain design and site topology design. Develop a strategy for migrating from Windows NT to Windows 2000 and design the active directory structure (domains, forests, tree: and organizational units) for the Windows 2000 network. Through classroom discussion and "mini-design" projects, students assess different migration strategies and evaluate design alternatives. Covers material for Microsoft 70-219 and 70-222 exams. PR: Any MST152 course or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Class in Spring 2010				

CIS175CE	Supporting a Microsoft Windows 2003 Network Infrastructure (may also be taken as MST155)	3 credits
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Implementation of a peer-to-peer and client-server network using Microsoft Windows 2003 Server and Windows 2000 / XP Professional and related networking services in a routed and non-routed environment. Uses extensive hands-on exercises and discussion. Components of the network include: TCP/IP, IPSec, DHCP, DNS, WINS, static and dynamic routing, remote access, virtual private networking, interoperability with Novell and UNIX/Linux, private IP addressing with NAT, certificate services and security. Covers content of Microsoft 70-291 exam. PR: MST152 and all other prerequisites associated with this class or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Class in Spring 2010				

MST155	Implementing Windows 2003 Network Infrastructure (may also be taken as CIS175CE)	3 credits
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Knowledge and skills to install, configure, maintain, and support a Microsoft Windows network infrastructure. Covers content of Microsoft 70-291 exam. PR or CR: Any MST152 course or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Class in Spring 2010				

MST152	Microsoft Windows 2003 Server (Substitute MST152DB)	4 credits
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Installation, configuration and administration of Microsoft Windows 2003 Server in an Active Directory domain environment. The course also emphasizes installation, configuration and administration of network services, including: TCP/IP and other network protocols, Dynamic TCP/IP Configuration Services (DHCP), Name Resolution (DNS and WINS), Routing and Remote Access Services (RRAS), Printer Administration, Terminal Services, Web, Telnet and FTP Services. Covers material for Microsoft exam 70-290. PR: CIS175DB and all other prerequisites associated with this class and/or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
26621	MCC/DTC Classroom 404	TR	6:00-10:30p	10/20-12/17

LINUX COURSES

CIS126DL Linux Operating System 3 credits

Introduction to the Linux Operating system. Develop knowledge and skills required to install, configure and troubleshoot a Linux-based workstation, including basic network functions. Learn basic command line and Graphical User Interface (GUI) desktop environment utilities and applications. Fundamentals covered to achieve the entry-level industry certification. PR: CIS105 recommended.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
29461	MCC/DTC Classroom 405	MW	6:00-9:40p	08/24-10/14
29463	MCC/DTC Classroom 405	TR	6:00-9:40p	10/20-12/17

CIS238DL Linux System Administration 3 credits

Managing Linux Operating Systems including sophisticated manipulation of file structures, backup systems, printing processes, troubleshooting, user account management, hard disk maintenance and configuration, process monitoring and prioritizing, kernel customization, and system resource control. Preparation for industry certifications such as the SAIR/GNU LCP and LCA certificates, CompTIA's Linux+, RHCT, RHCE, and LPIC. PR: CIS126AL, CIS126BL and CIS126CL; or CIS126DL or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
29481	MCC/DTC Classroom 405	MW	6:00-9:40p	10/19-12/09

CIS239DL Linux Shell Scripting 3 Credits

Linux Shell Scripting syntax and methods including the automation of system tasks as well as interpreted user-level programming. Course includes the Linux Borne Again Shell (BASH) as well as a variety of industry competitors. PR: CIS238DL or permission of instructor.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
29579	MCC/DTC Classroom 405	MW	6:00-9:40p	08/24-10/14

CIS240DL Linux Network Administration 3 credits

In depth networking based on Linux servers and the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol suite. Integrating Linux servers and workstations into a network environment with multi-platform network operating systems including a variety of open-standard and proprietary protocols. Preparation for industry certifications such as the SAIR/GNU LCP and LCA certificates, CompTIA's Linux+, RHCT, RHCE, and LPIC. PR: CIS126AL, CIS126BL and CIS126CL; or CIS126DL or department approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
Look for Class in Spring 2010				

CIS271DL Linux Security 3 credits

Implementing in-depth security methods and techniques in a Linux-based network environment. Utilize programs, utilities and configuration techniques to provide user-level, file system and network security. Gain knowledge in a variety of security cracking techniques and how to guard against them. In all aspects of security, the standard of practicing professional ethics seriously emphasized. Preparation for industry certifications such as the SAIR/GNU LCP and LCA certificates, CompTIA's Linux+, RHCT, RHCE, and LPIC. PR: CIS240DL or Department Approval.

<u>Section</u>	<u>Location</u>	<u>Days</u>	<u>Times</u>	<u>Class Dates</u>
29491	MCC/DTC Classroom 405	MW	6:00-9:40p	10/19-12/09

MCC policies on registration, fees, withdrawals, etc. can be found in the Student Handbook, the MCC Catalog, and on MCC's web site <<http://www.mc.maricopa.edu/students/current.html>>.

