



Network and Operating Systems

Computer Information Systems Typical Course Sequence | AAS Degree



	CORE / PROGRAM SPECIFIC			GENERAL EDUCATION	
1st Term	CIS100 Computer Careers Exploration A brief survey of various computer careers and an exploration of the MHCC CIS certificate/AAS degree.	CIS120 and 120L Computer Concepts I / Lab Computer technology and how technology is used in business, industry, and at home/ students learn how to use the common, Windows-based computer software productivity tools	CIS151 Network Fundamentals A comprehensive program designed to teach student networking and internetworking technology skills.	BA101 Intro to Business or any business management course	MTH65 Beginning Algebra or higher
2nd Term	CIS122 Computer Concepts III An introduction to programming.	CIS125SS Spreadsheets Emphasis will be on spreadsheet creation, editing, formatting, copying, deleting and formula specification, spreadsheet functions, font selection, shading, borders, editing and data entry techniques, formulas.	CIS125WP Word Processing Emphasis will be on word processing function such as saving, retrieving, formatting, printing, layout and editing, formatting and font selection on a line, paragraph, page, and/or document level.	CIS140 Intro to Operating Systems Introduces students to the history, terminology, functions, and uses of various operating systems.	CIS144 Problem Solving Methodologies Course material will include discussions of various stages of problem solving, thought processes, personal tendencies, team dynamics, documenting, testing and evaluating solutions.
3rd Term	CIS125DB Desktop Databases Emphasis will be on creating and populating databases; creating an application system built around a database, multiple tables and queries; database administration.	CIS125HTM HTML Explores the HTML foundation of webpage creation.	CIS195 Web Development I Covers the fundamentals of creating well-designed, professional web sites and web pages.	SP111 Fundamentals of Public Speaking	WR121 English Composition
4th Term	CIS140W Windows Operating Systems Overview to the Microsoft Windows operating system, with an emphasis of the role of being a desktop administrator.	CIS145A Computer Maintenance & Forensics I Examines common computer hardware/software problems and corrective processes and elementary computer forensics.	CIS244 Introduction to System Analysis Introduces technology professionals to strategic information systems in organizations.	Health & PE	PSY201 or PSY101
5th Term	CIS140U Unix/Linux Management A hands-on application-based course which uses the Linux computer operating system to teach more advanced UNIX-based operating systems concepts.	CIS152 Fundamentals of Routing Theory An introduction to routing technology, routing theory and router configuration.	CIS188 Wireless Network Concepts Introduces wireless LAN technology, and students will learn how to install, configure, and troubleshoot wireless LAN networks.	CIS279A Novell Systems Management Teaches students the skills needed to effectively manage the current Novell Server Operating System.	WE280CAD Cooperative Education Internship
6th Term	CIS154 Intermediate Routing Switching, WAN An introduction to the following topics: VLSM, single-area OSPF, EIGRP, switching, VLANs, VTP, Inter-VLAN routing, PPP, ISDN and frame relay.	CIS279S Windows Server OS Provides a foundation for supporting Microsoft Windows Server OS including the skills to configure, customize, optimize, integrate, and troubleshoot networks.	CIS284 Network Security Fundamentals Introduces students to the ever growing need for professionals trained in network security.	CIS297 Capstone Development Practicum Explores current technology issues, 'real world' information technology situations and intermediate to advanced areas of study related to information systems.	

Computer Information Systems Typical Course Sequence | Certificate Program

1st Term	CIS100 Computer Careers Exploration	CIS120 and 120L Computer Concepts I / Lab	CIS151 Network Fundamentals	MTH65 Beginning Algebra or higher	
2nd Term	CIS140 Intro to Operating Systems	CIS140U Unix/Linux Management	CIS152 Fundamentals of Routing Theory	CIS188 Wireless Network Concepts or CIS279A Novell Systems Management	WR121 English Composition
3rd Term	CIS140W Windows Operating Systems	CIS154 Intermediate Routing Switching, WAN	CIS279S Windows Server OS	CIS284 Network Security Fundamentals	PSY201 or PSY101

MHCC Faculty Adviser

Gary DeRoest: 503-491-7339 Room 2781 Gary.DeRoest@mhcc.edu
 Paul Morris: 503-491-7303 Room 2778 Paul.Morris@mhcc.edu



This is a sample schedule and courses are subject to change.

People requiring accommodations due to disability should contact the Disability Services Office at 503-491-6923 or 503-491-7670 (TDD). Please call at least 2 weeks prior to event