



Excellence

Sinclair received the prestigious 2002 MetLife Foundation Community College Excellence Award for providing supportive learning environments and creating valuable community partnerships.

Affordable

Sinclair has the lowest college tuition in the state. Certification costs less than \$2000 for Ohio residents.

Associate Degree

All courses can be used toward an Associate of Applied Science (AAS) degree in Computer Information Systems.

Certified Instructors

All certification courses (including MCSA, MCSE, Cisco, Network+ and A+) are taught by certified instructors. All CIS instructors have hands-on industry experience and skill with state-of-the-art technology.

Convenient

Attend CIS courses at the main campus, The Learning Center at Miami Valley Research Park, many other locations in the region, or through distance learning.

Flexible

Courses are offered during the daytime, evenings and weekends. Most courses are offered every quarter.

CIS Industry Certification

CISCO CERTIFIED NETWORKING ASSOCIATE (CCNA)

The Cisco Certified Networking Associate (CCNA) industry certification builds skill in the principles and practices of designing, building and maintaining networks capable of supporting national and global organizations. Students master a broad range of topics, from basic networking skills such as pulling cable, to more complex concepts such as applying advanced troubleshooting tools. Gain hands-on experience with state-of-the-art technology and networking equipment through this Cisco Networking Academy program. All courses are offered at Sinclair's normal, low tuition rate. CCNA courses can also be applied toward the AAS degree with an area of concentration of Network Engineer.

Admission Requirements

A background in basic computer and Windows skills are required to enroll in the CCNA program. To gain experience and qualify for this certification program, complete CIS 107 Introduction to Operating Systems or CIS 108 Introduction to Windows 2000 Professional. Meet with a Business Technologies division counselor prior to enrolling in the Cisco Networking Academy program to ensure proper placement in the program.

Course Sequence

After all prerequisites have been satisfied, students complete the four course program in the designated sequence.

Cisco Regional Academy

Sinclair Community College is a Cisco Regional Academy, and the CCNA course work uses the official Cisco curriculum. Students acquire computer networking skills and apply these skills through hands-on projects. Laboratory exercises hone network troubleshooting, problem solving and critical thinking abilities. Web-based lessons and quizzes are available online.

For More Information

Course Content & Technical Certification

Computer Information Systems
Building 5, Room 5143, (937) 512-2892

Scheduling, Registration & Transfer

Business Technologies Counselors
Building 6, Room 6131, (937) 512-3054

<http://IT.Sinclair.edu>

IT@Sinclair.edu

Employment Outlook

Dayton is one of eight U.S. cities with exceptional IT employment opportunities. Today, nearly two-thirds of all jobs in Ohio require advanced IT skills, and the demand for IT workers exceeds the current supply. Studies also indicate:

- 1.6 million new workers will be needed.
- The greatest demand is in the Midwest.
- One-third of IT openings are for technical support workers.

Fifty percent of all IT jobs relate to technical support and network administration, positions that exist in almost every organization.

Sample Job Titles

Telecommunications Technician
Wide Area Network Technician
Network Operations Analyst
Network Designer
Network Maintenance & Operations Specialist

Salary Range

Dayton area median: \$64,000 ±

Certification Exams

Take certification exams at any Sylvan Prometric Service Center. To find the nearest testing center, visit: www.2test.com



CIS Industry Certification

CISCO CERTIFIED NETWORKING ASSOCIATE (CCNA)

CCNA Certification

Prepare for the CCNA certification exam by completing the four Sinclair courses in sequence. Earn the certification by passing one certification exam. The program consists of four courses, equivalent to 28 credit hours. Students must pass each semester exam before they move to the next semester. Students who successfully complete the courses are prepared to take a standardized test to qualify as a Cisco Certified Network Associate (CCNA™).

Suggested Schedule

CIS 241 Cisco Networking Fundamentals Credits

OSI Model & Industry Standards
Network Topologies
IP Addressing (including Subnet Masks)
Networking Components
Basic Network Design

Total 7

CIS 242 Cisco Router Fundamentals

Beginning Router Configurations
Routed & Routing Protocols

Total 7

CIS 243 Cisco Routing in LANS

Advanced Router Configurations
LAN Switching Theory & VLANs
Advanced LAN & LAN Switched Design
Novell IPX
Threaded Case Studies

Total 7

CIS 244 Cisco Routing in WANS

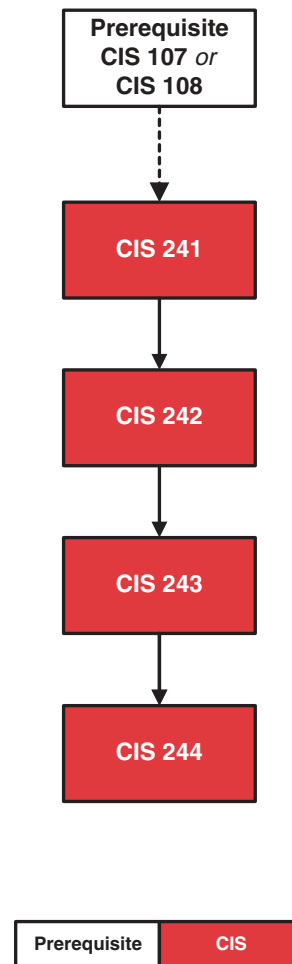
WAN Theory & Design
WAN Technology, PPP,
Frame Relay, ISDN

Total 7

Total 28

All course materials are from the Cisco Online Academy Curriculum.

CIS Core Courses



Employment References: Defying the Downturn, *InfoWorld*, June 29, 2001
Bridging the Gap, Information Technology Association of America, April 2000

Note: This fact sheet is subject to modification. Contact a Business Technologies counselor for enrollment assistance.



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Flexible

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CIS Industry Certification

MCSA & MCSE WINDOWS 2000 TRACK

The Windows 2000 Track builds skill in Microsoft networking technology in preparation for the Microsoft Certified Systems Administrator (MCSA), Microsoft Certified Systems Engineer (MCSE), and Microsoft Certified Professional (MCP) exams. MCSE is the premier certification for professionals who analyze the business requirements for a system architecture. Students design solutions, learn to deploy, install and configure architecture components, and troubleshoot system problems. Learn to effectively plan, implement, maintain and support information systems in a wide range of computing environments using the Microsoft Windows 2000 Server and BackOffice.

All courses are offered at Sinclair's normal, low tuition rate. MCSA and MCSE courses can also be applied toward the AAS degree with an area of concentration of Network Manager.

Admission Requirements

A background in the Microsoft Windows 2000 environment is required to enroll in MCSA and MCSE courses. To gain experience and qualify for these certification programs, complete BIS 105 Introduction to Computers, CIS 108 Introduction to Windows 2000 Professional, and CIS 230 Computer Networks. To ensure proper placement in the program, meet with a Business Technologies division counselor before enrolling in MCSE courses.

Course Sequence

After all prerequisites have been satisfied, students choose between a one-year or two-year course sequence. The one-year option is illustrated on the back.

Microsoft IT Academy

Sinclair is a Microsoft IT Academy. All MCSA and MCSE courses and materials are certified by Microsoft.

For More Information

Course Content & Technical Certification

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Fifty percent of all IT jobs relate to technical support and network administration, positions that exist in almost every organization.

Sample Job Titles

Network Specialist
Local Area Network Technician
LAN Support Analyst
Network Administrator
Network Operations Manager
Network Manager

Salary Range

Dayton area median: \$54,900 ±

Certification Exams

Take certification exams at any Sylvan Prometric Service Center. To find the nearest testing center, visit: www.2test.com



microsoft.com/education/aatp



nsf.gov

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CIS Industry Certification

MCSA & MCSE WINDOWS 2000 TRACK

MCSA & MCSE Certification

Prepare for the MCSA and/or MCSE certification exams by completing the identified Sinclair courses. Earn the Windows 2000 MCSA credential by passing four exams. Earn the Windows 2000 MCSE credential by passing five core exams and two elective exams. Many students opt to complete the MCSA certification first, then tackle the additional requirements for MCSE certification. Both certifications provide a valid and reliable measure of technical proficiency and expertise.

Suggested Schedule

| First Quarter | | Exam | Credits |
|---------------|------------------------|--------|----------|
| CIS 271 * | MCSE 2000 Professional | 70-210 | 4 |
| CIS 272 * | MCSE 2000 Server | 70-215 | 4 |
| Total | | | 8 |

Second Quarter

| | | | |
|--------------|---------------------------------------------|--------|--------------|
| CIS 263 * | Managing a Windows 2000 Network | 70-218 | 4 |
| CIS 273 * | MCSE 2000 Network Infrastructure | 70-216 | 4 |
| CIS 274 | MCSE 2000 Directory Services Administration | 70-217 | 4 |
| CIS 276 | MCSE 2000 Internet Explorer Administration | 70-080 | 3 |
| Total | | | 11-15 |

Third Quarter **

| | | | |
|--------------------------|----------------------------------------|--------|--------------|
| CIS 260 | MCSE Exchange Server | 70-081 | 4 |
| CIS 275 | MCSE 2000 Designing Directory Services | 70-219 | 4 |
| CIS 297 | MCSE Electives | | 4 |
| ** Choose 2 of 3 courses | | | Total |
| | | | 8 |

Total 27

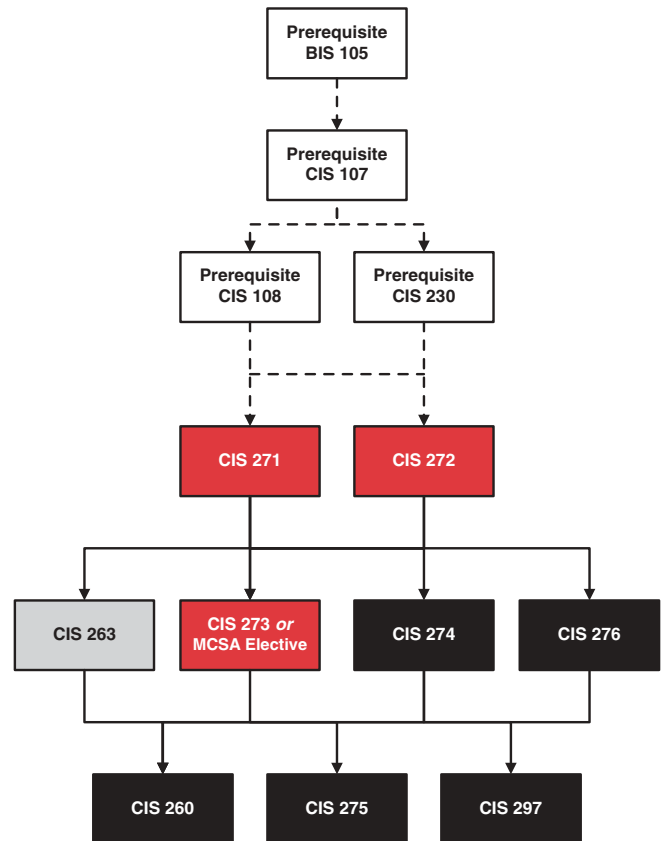
* MCSA Track: MCSA certification requires CIS 271, 272 and 263 plus CIS 273 or an approved combination of electives.

Two-year sequence: Take one course per quarter (after prerequisites are satisfied). All course materials are Microsoft approved study guides. For additional information on courses and certification exams, see: microsoft.com/education/aatp

MCP Certification

Prepare for MCP certification by completing the identified Sinclair course. Earn the MCP certification and title by passing any MCSE certification exam, other than 70-240 Microsoft Windows 2000 Accelerated Exam for MCPs.

CIS Core Courses



Employment References: Defying the Downturn, *InfoWorld*, June 29, 2001
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