

## Program Information Report

### Science, Computer Technology, Engineering & Math

#### Computer Networking Operating Systems (CVCNOR)

##### Advanced Certificate

Program Effective Term: Fall 2025

High Demand Occupation High Skill Occupation High Wage Occupation

This program lays a foundation in preparation for a profession as a Microsoft Certified IT Professional. Students will install, configure, and troubleshoot Microsoft Client Server Networks. The program is designed to deploy and manage both Windows Server and Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server Active Directory, Network Services, and other Server functions are all emphasized. All Server configured activities are tested out using Client Workstations to ensure they work, just as in a real business environment. The program is structured for those who are working towards Microsoft Server certifications. Also those already having certification who want to enhance their knowledge with the newer operating systems, as well as those who may just want to learn how to effectively implement these technologies are welcome.

##### Program Admission Requirements:

Completion of the Computer Systems Technology Program (CTCSTC) or CST 160 and CST 185 with a minimum grade of "C," passing the COMPTIA certification, or equivalent industry experience.

Major/Area Requirements		(15 credits)
CNT 201	Microsoft Client/Server Administration	3
CNT 211	Server Administration I	4
CNT 224	Identity with Windows Server	4
CNT 227	Administrating Windows Server Hybrid	4

Minimum Credits Required for the Program:

15

##### Notes:

*This program is designed to be completed in a two semester time frame.*

PROGRAM CHANGE FORM

<b>Program Code: CVCNOR</b>	<b>Current Program Name: Computer Networking Operating Systems</b>	<b>Effective Term: Fall 2025</b>
<b>Division Code: BCT</b>	<b>Department: Computer Science and Information Technology</b>	

**Directions:**

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using CurricUNET, but should be submitted at the same time as the program change form.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a [Program Assessment Plan Change](#) form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the [Curriculum and Assessment Program Information page](#).

**Requested Changes:**

- Remove course(s): CNT 223
- Add course(s): CNT 227 - Administrating Windows Server Hybrid
- Program title (new title is \_\_\_\_\_)
- Description
- Advisors
- Program admission requirements
- Continuing eligibility requirements

- Program outcomes (may also result from removing or adding a course)\*
- Program assessment plan\*
- Accreditation information
- Other Layout changes\_\_\_\_\_

Note: A change to the Award Type requires the submission of a new program proposal form and a separate program inactivation form. Contact the Director of Curriculum & Assessment for more information.

**Show all changes on the catalog page you attach.**

\* Please submit a [Program Assessment Plan Change](#) form.

**Rationale for proposed changes:**

CNT 223 course is outdated and being inactivated and replaced with CNT 227.

**Financial/staffing/equipment/space implications:**

N/A

**List departments that have been consulted regarding their use of this program.**

Computer Science and Information Technology Dept.

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Michael Kidd	Michael Kidd	10/22/2024
Department Chair	<i>Scott Shaper</i>	<i>Scott Shaper</i>	10/23/2024
Division Dean/Administrator	Eva Samulski	<i>Eva Samulski</i>	10/23/2024

**Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu**

PROGRAM CHANGE FORM

Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.

Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Randy Van Wagnen	<i>RVanWagnen</i>	4-24-25
Assessment Committee Chair	Jessica Hale	<i>Jessica Hale</i>	4-24-25
Executive Vice President for Instruction	Dr. Brandon Tucker	<i>BT</i>	4/24/25

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Reviewed by C&A Committee 3/13/25

Computer Networking Operating Systems (Advanced Certificate)

Catalog Effective Term: Fall 2024

Program Code: CVCNOR

Credential: Advanced Certificate

High Demand Occupation, High Skill Occupation, High Wage Occupation

- **OVERVIEW**
- **REQUIREMENTS**
- **CURRICULUM**

This program is designed to be completed in a two semester time frame.

Minimum Credits Required for the Program: 15

Code	Title	Credits
<b>Major/Area Requirements</b>		
<u>CNT 201</u>	Microsoft Client/Server Administration	3
<u>CNT 211</u>	Server Administration I	4
<del>CNT 223</del>	<del>Networking with Windows Server (DELETE)</del>	4
<u>CNT 224</u>	Identity with Windows Server	4
<b>CNT 227</b>	<b>Administrating Windows Server Hybrid (ADD)</b>	4
<b>Total Credits</b>		<b>15</b>
Course List		

## Program Information Report

### Science, Computer Technology, Engineering & Math

#### Computer Networking Operating Systems (CVCNOR)

##### Advanced Certificate

Program Effective Term: Fall 2022

High Demand Occupation High Skill Occupation High Wage Occupation

This program lays a foundation in preparation for a profession as a Microsoft Certified IT Professional. Students will install, configure, and troubleshoot Microsoft Client Server Networks. The program is designed to deploy and manage both Windows Server and Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server Active Directory, Network Services, and other Server functions are all emphasized. All Server configured activities are tested out using Client Workstations to ensure they work, just as in a real business environment. The program is structured for those who are working towards Microsoft Server certifications. Also those already having certification who want to enhance their knowledge with the newer operating systems, as well as those who may just want to learn how to effectively implement these technologies are welcome.

##### Program Admission Requirements:

Completion of the Computer Systems Technology Program (CTCSTC) or CST 160 and CST 185 with a minimum grade of "C," passing the COMPTIA certification, or equivalent industry experience.

Major/Area Requirements		(15 credits)
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server	4
CNT 223	Networking with Windows Server	4
CNT 224	Identity with Windows Server	4

Minimum Credits Required for the Program:

15

##### Notes:

*This program is designed to be completed in a two semester time frame.*

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

<b>Program Code: CVCNO</b>	<b>Current Program Name: Computer Networking Operating Systems 1</b>	<b>Effective Term: SS 2022</b>
<b>Division Code: BCT</b>	<b>Department: CSIT</b>	

**Directions:**

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using CurricUNET, but should be submitted at the same time as the program change form.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a [Program Assessment Plan Change](#) form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the [Curriculum and Assessment Program Information page](#).

**Requested Changes:**

- |  |   |
|--|---|
| <input type="checkbox"/> Remove course(s): _____   | <input type="checkbox"/> Program outcomes (may also result from removing or adding a course)* |
| <input type="checkbox"/> Add course(s): _____  | <input type="checkbox"/> Program assessment plan*   |
| <input checked="" type="checkbox"/> Program title (new title is <u>Computer Networking Operating Systems</u> ) | <input type="checkbox"/> Accreditation information  |
| <input checked="" type="checkbox"/> Description  | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> Advisors  |   |
| <input checked="" type="checkbox"/> Program admission requirements   |   |
| <input type="checkbox"/> Continuing eligibility requirements   |   |

Note: A change to the Award Type requires the submission of a new program proposal form and a separate program inactivation form. Contact the Director of Curriculum & Assessment for more information.

**Show all changes on the catalog page you attach.**

\* Please submit a [Program Assessment Plan Change](#) form.

**Rationale for proposed changes:**

Remove the number 1 from the program title. We no longer offer the Computer Networking Operating Systems 2 advanced certificate. Therefore, there is no need for this program to imply that it is the first certificate program in a series of program certificates.

**Financial/staffing/equipment/space implications:**

None

**List departments that have been consulted regarding their use of this program.**

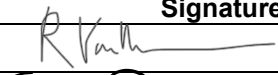


This only affects our department.

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	John Trame		1/27/2022
Department Chair	Scott Shaper		1/28/2022
Division Dean/Administrator	Ken Samuels		1/28/2022

Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu

PROGRAM CHANGE FORM

Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.			
Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Randy Van Wagnen		3-1-22
Assessment Committee Chair	Shawn Deron		3/03/2022
Vice President for Instruction	Kimberly Hurns		
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Reviewed by C&A Committees 2/17/22

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code  
CVCNO

Program Name: Computer Networking Operating Systems I

Effective Term:  
FALL 2009

Division Code: *BCT* Department: Business

Directions:

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- |  |   |
|--|---|
| <input type="checkbox"/> Review  | <input type="checkbox"/> Program admission requirements   |
| <input checked="" type="checkbox"/> Remove course(s): <i>CNT 221</i> <i>R.M.P.</i> | <input type="checkbox"/> Continuing eligibility requirements  |
| <input checked="" type="checkbox"/> Add course(s): <i>CNT223</i>                   | <input type="checkbox"/> Program outcomes   |
| <input type="checkbox"/> Program title (title was _____)                           | <input type="checkbox"/> Accreditation information  |
| <input checked="" type="checkbox"/> Description                                    | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
| <input type="checkbox"/> Type of award   | <input checked="" type="checkbox"/> Other <i>DEPARTMENTS LISTED ON WEB</i>  |
| <input checked="" type="checkbox"/> Advisors <i>LISTED ON WEB</i>                  |   |
| <input type="checkbox"/> Articulation information                                  |   |

Show all changes on the attached page from the catalog.

**Rationale for proposed changes or discontinuation:** Beginning with Server 2008's introduction, Microsoft has completely changed the Certification Requirements for IT personnel involved with their Server products. In contrast with the 4 - Step process with the Server 2003 MCSA (Microsoft Certified System Administrator), the new program requires two MCTS (Microsoft Certified Technology Specialist) exams and one MCITP (Microsoft Certified Information Technology Professional) resulting in the new MCITP Server Enterprise Certification. Our present CNT211 course, Server Management, which is already largely Active Directory based, will be altered slightly to meet one of the MCTS requirements, "Configuring Windows Server 2008 Active Directory". The present CNT224 course will be also be altered to meet the MCITP requirement - Windows Server 2008 Administration. A new course CNT223, (Configuring Windows Server 2008 Network Infrastructure), will replace CNT221. This course contains the same elements from CNT221, but adds considerable additional material previously covered in the existing CNT211 and CNT224 courses which Microsoft now covers in the Network Infrastructure venue. The fourth course presently in this program, XP Administration, will not be changed to Vista, but will be altered at the time of Introduction of "Windows 7" next year. This is in line with present business practices, as most organizations have opted to stay with Windows XP because of problems and complexity involved with the switch to VISTA, and the relatively short time frame for its replacement.

**Financial/staffing/equipment/space implications:**

No Financial, staffing, or space implications. Possibly some additional equipment purchases which will be handled within the Department's budget.

**List departments that have been consulted regarding their use of this program.**

These changes could impact both CIS and CSS programs. This proposed change has been given to Neil Gudsen, who represents the CIS/CSS programs.

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	William Reckert	<i>[Signature]</i>	11/20/08
Department Chair	Dary Downen	<i>[Signature]</i>	11/25/08
Division Dean/Administrator	Rosemary Wilson	<i>[Signature]</i>	11/25/08
Vice President for Instruction		<i>[Signature]</i>	1/23/09
President			

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*[Handwritten initials]* Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.

logged 11/26/08 *[initials]*  
Office of Curriculum & Assessment



## Computer Networking Academy I (CVCNA1)

### Advanced Certificate

#### Major/Area Requirements

(16 credits)

CNT 206	Internetworking I - Fundamentals	4
CNT 216	Internetworking II - Routers	4
CNT 226	Internetworking III - Switches	4
CNT 236	Internetworking IV - WANs	4

Minimum Credits Required for the Program:

16

#### Computer Networking Academy I (CVCNA1)

This Cisco Networking Academy program prepares students for a job as a network technician where they will install, configure, and troubleshoot Local Area Networks under the supervision of a network administrator. The focus is placed on cabling systems and internetworking hardware. It also gives students the knowledge they'll need to pass the Cisco Certified Network Associate Examination.

**Program Admission Requirements:** Students must complete the Computer Systems Technology (CTCSTC) Certificate with a GPA of 2.0 or better or have equivalent industry experience to be admitted into the program.

## Computer Networking Operating Systems I (CVCNO)

### Advanced Certificate

#### Major/Area Requirements

(14 credits)

CNT 201	Administering Microsoft Windows XP Professional	3
CNT 211	Administering and Managing Microsoft Windows Server	4
CNT 221 OR 224	Implementing a Windows Server 2003 Network Infrastructure	3
CNT 224	Microsoft ISA Administration	4
Or CNT 223	Configuring Windows Server 2008 Network Infrastructure	4

Minimum Credits Required for the Program:

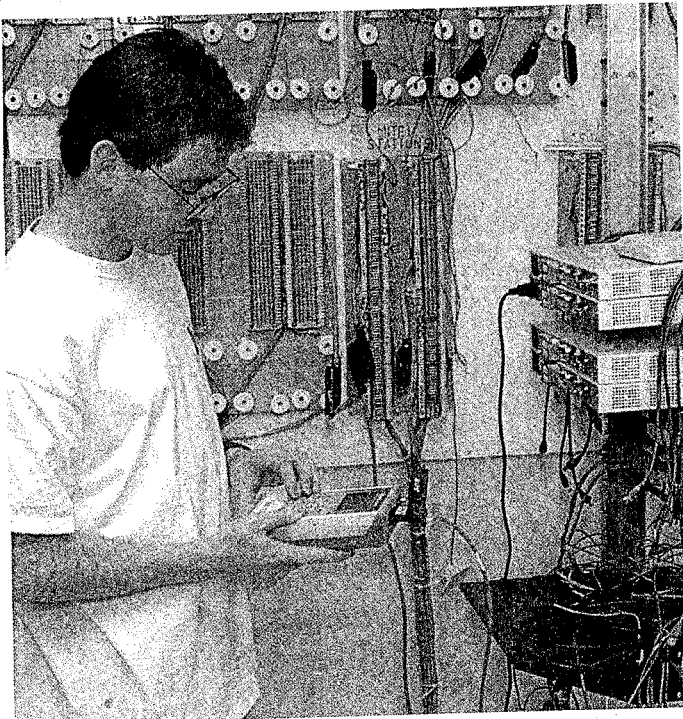
14

**Notes:**

*This program is designed to be completed in a two semester time frame.*

#### Computer Networking Operating Systems I (CVCNO)

This program lays a foundation in preparation for a profession as a Microsoft Certified IT Professional. Students will install, configure, and troubleshoot Microsoft Client Server Networks. The program is designed to deploy and manage both Windows Server 2003 and Server 2008 with XP Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server 2008 Active Directory, Network Services, and other Server functions are all emphasized. All Server configured activities are tested out using Client Workstations to insure they work, just as in a real business environment. The program is structured for both those who ~~are~~ are working towards Microsoft Server 2003 MCSA/MCSE certifications, and/or Server 2008 MCTS/MCITP certifications. Also those already having certification who want to enhance their knowledge with the newer operating systems, as well as those who may just want to learn how to effectively implement these technologies are welcome.



# Computer Networking Operating Systems I (CVCNO)

Advanced Certificate

## Contact Information:

**Division:** Business and Computer Technologies

**School:** School of Information Technology

**Department:** Computer Instruction and Electricity/Electronics

**Advisors:** Michael Galea, James Lewis, William Reichert, John Trame

*first  
if possible*

## Major/Area Requirements

**(14 Credits)**

CNT 201	Administering Microsoft Windows XP Professional	3
CNT 211	Administering and Managing Microsoft Windows Server	4
CNT 221	<u>or</u> Implementing a Windows Server 2003 Network Infrastructure	
<u>CNT 223</u>	<u>Windows Server Networking Infrastructure Configuration</u>	<u>3-4</u>
CNT 224	Microsoft ISA Administration	4

**Minimum Credits Required for the Program:**

**14 Credits**

*Underlined text above is new.*

## Program Description:

This program lays the foundation in preparation for a professional as a Microsoft Certified IT Professional. Students will install, configure, and troubleshoot Microsoft Client Server Networks. The program is designed to deploy and manage both Windows Server 2003 and Server 2008 with XP Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server 2008 Active Directory, Network Services, and other Server functions are all emphasized. All Server configured activities are tested out using Client Workstations to insure they work, just as in a real business environment. The program is structured for both those who are working towards Microsoft Server 2003 MCSA/MCSE certifications, and/or Server 2008 MCTS/MCITP certifications. Also, those already having certification who want to enhance their knowledge with the newer operating systems, as well as those who may just want to learn how to effectively implement these technologies are welcome.



### PROGRAM CHANGE FORM

Program Code: Program Name:

**CVCN08 Computer Networking Operating Systems I**

Effective Term:

**Fall 2004**

**Directions:** 1.) Attach the current program listing from the WCC catalog and indicate any changes that you would like to make.  
2.) Draw lines through anything that should be deleted and write in additions. Extensive narrative changes may be included on a separate sheet.  
3.) Check the boxes below for each type of change being proposed. If you are making changes to courses or proposing new courses as part of this proposal, they must be approved separately using a Course-Syllabus Approval Form (CSAF). Courses that are being discontinued also should be submitted on CSAF forms.

**1. Requested Changes:**

- Remove 1 Course(s)
- Add 21 Course(s)
- Total Credits: Current Credits \_\_\_\_\_ After Changes \_\_\_\_\_
- Change Course Semester Sequencing
- Change Title (title was \_\_\_\_\_)
- Description
- Advisors
- Articulation Information
- Program Admission Requirements
- Continuing Eligibility Requirements
- Footnotes
- Other Elective Courses

Show all changes on the attached program sheet.

**2. Rationale for Proposed Changes:**

With the release of Windows XP Professional, and Windows Server 2003, Microsoft has changed their requirements for the MCSA certification. The changes reflect not only name changes to the operating systems, but the combining of two requirements "Administering Windows 2000 Server" with the "Managing Windows 2000 Server" into a single certification requirement, and adding an elective which can be chosen from five different areas. We will be offering a course in two of the five areas, choosing the most popular and useful of the possibilities - Internet and Acceleration Server, 2000, and Exchange 2003.

**3. Financial/Staffing/Equipment/Space Implications:**

Extensive revamp of course materials is required.

**4. Has the department consulted with all departments that may be impacted?** Yes  No  NA

Comments:

**\*\*REMINDER:** Please include the current program sheet with all changes listed.

**Signatures:**

Reviewer	Print Name	Signature	Date
Program Change Initiator:	William R. Reichert		9/16/03
Department Chair:	GARY DOWNEN		9/17/03
Division Dean/Administrator:	Rosemary Wilson		10/6/03
Executive Vice President, Instruction	Roger M. Valer		1/29/04

\*Please submit completed form to the Office of Curriculum and Articulation Services.

# Computer Networking Operating Systems I (CVCNO) Advanced Certificate

Program Effective Term: Fall 2004

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This program lays a foundation in preparation for a profession as a Microsoft Certified Systems Administrator (MCSA) where you will install, configure, and troubleshoot Microsoft client-server networks. The program is designed to deploy and manage Windows 2003/XP components in real life situations. Installing, configuring, testing, managing, monitoring, and troubleshooting of the Windows 2003/XP systems are all emphasized. Most importantly, specific activities are tested out on workstations to insure they work just as in a real business environment. The program is for both those who are working towards Microsoft certifications i.e., MCSA, MCSE and those who may already have the certifications and want to learn how to implement these technologies. Individuals who have an interest in learning Windows 2003/XP technologies are also welcome.

## Program Admission Requirements:

Completion of the Computer Systems Technology Program (CTCSTC) or (CST 150 and CST 225) with a minimum grade of "C", passing the COMPTIA certification, or equivalent industry experience is required for admission to the program.

Major/Area Requirements		(14 credits)
CNT 201	Administering Microsoft Windows XP Professional	3
CNT 211	Administering and Managing Microsoft Windows 2003 Server	4
CNT 221	Implementing a Windows Server 2003 Network Infrastructure	3
CNT 224	Microsoft ISA Administration	4

**Minimum Credits Required for the Program:** 14

### Notes:

*\*This program is designed to be completed in a two semester time frame.*

*\*\*One course must be taken as part of the Computer Networking Operating Systems I program and the other course must be used with the Computer Networking Operating Systems II program.*

# Washtenaw Community College Program Change Request Form

Program Code: \_\_\_\_\_ Program Name: **Computer Networking Operating Systems** Effective Term: **Fall 02**  
**CVCNO:** \_\_\_\_\_

Attach the current program listing from the WCC catalog and indicate any changes that you would like to make. Draw lines through anything that should be removed and write in any additions. Extensive narrative changes may be included on a separate sheet. Check the boxes below for each type of change being proposed. If you are making changes to courses or proposing new courses (that don't currently exist) as part of this proposal, they must be approved separately using a Course-Syllabus Approval Form (CSAF).

**1. Requested Changes:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Remove <u>Four</u> Course(s)<br><input checked="" type="checkbox"/> Add <u>One</u> Course(s)<br><input checked="" type="checkbox"/> Increase/Decrease Total Credits: Current Credits <u>19</u> After Changes <u>14</u><br><input type="checkbox"/> Course Sequence<br><input checked="" type="checkbox"/> Name (new name <u>Computer Networking Operating Systems I</u> )<br><input checked="" type="checkbox"/> Description | <input type="checkbox"/> Advisors<br><input type="checkbox"/> Articulation Agreements<br><input type="checkbox"/> Program Admission Requirements/Procedures<br><input type="checkbox"/> Continuing Eligibility Requirements<br><input type="checkbox"/> Footnotes<br><input type="checkbox"/> Other _____ |
|--|---|

Show all changes on the attached program sheet.

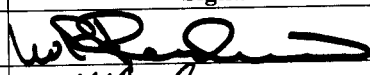
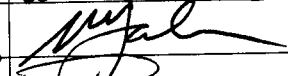
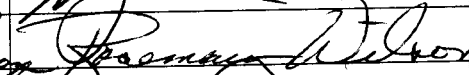

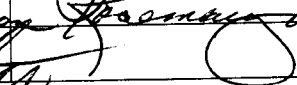
**Rationale for Proposed Changes:** The present certificate, which centers on the Microsoft MCSE, requires seven courses to complete. The MCSE is actually an advanced certification, which is comparable to the CISCO CCNP. The training for this CISCO certification is completed at WCC with two certificates, the first being the entry level CCNA, and the second, the more advanced CCNP. Having the seven courses in the first certificate has made the Microsoft program unattractive to potential students, particularly when they only have to take four CISCO courses for an equivalent certificate. Microsoft, however, has given us a new entry level certification which is comparable to the CISCO CCNA and, like the CCNA, would require four courses to complete the training, three of which we are already teaching!!!! This certification is called the MCSA (Microsoft Certified Systems Administrator). Attached is a copy of the reworked program, with the required courses, deleting the three advanced ones and adding the new additional one. Along with these changes, a new program form for four additional courses for a 2nd Certificate in Microsoft, preparing the student for the MCSE after the MCSA (comparable to the CCNP after the CCNA).

**3. Financial/Staffing/Equipment/Space Implications:** At this time, I see no addition implications concerning Financial, Staff, Equipment, or Space, in fact, if anything, the needs would be reduced for this certificate as the number of courses being taught would be reduced. We presently are teaching all the MCSE courses in TI-114 in the Fall and Winter which has worked out very well.

**4. Has the department consulted with all departments that may be impacted?** Yes  No  NA

Comments: CIS and ELE Instructors and Department Heads have all been contacted with this proposal.

**Signatures:**

Reviewer	Print Name	Signature	Date
Program Change Initiator:	William R. Reichert		12/17/01
Department Chair:	MICHAEL GALOP		12/17/01
Division Dean:	Freeman Wilson		12-29-02
VP, Instruction/Student Services:			2/4

## **Computer Networking Operating Systems I (CVCNOS) Advanced Certificate**

**Program Effective Term: Fall 2002**

This program helps prepare you for a profession as a Microsoft MCSA (Microsoft Certified Systems Administrator) where you will install, configure, and troubleshoot Microsoft client-server networks. The program is designed to deploy and manage Windows 2000 components in real life situations. Installation, configuration, testing, management, monitoring, and troubleshooting of the Windows 2000 Systems are all emphasized. Most importantly, specific activities are tested out on Workstations to insure they work just as in a real business environment. The program is for both those who are working towards Microsoft certifications i.e. MCSA, MCSE and those who may already have the certifications and want to learn how to implement these technologies. Individuals who have an interest in learning Windows 2000 technologies are also welcome.

**Business and Computer Technologies Division  
Computer Instruction Department and Electronics Department**

**Advisors:** Michael Galea, James Lewis, John Trame

### **Program Admission Requirements:**

Completion of the Computer Systems Technology Program (CTCSTC) or (ELE 150 and ELE 225A) with a minimum grade of "C" or passing the COMPTIA certification.

<b>Major/Area Requirements</b>		<b>(14 Credits)</b>
CNT 201	Administering Microsoft Windows 2000 Professional	3
CNT 211	Administering Microsoft Windows 2000 Server	4
CNT 221	Implementing a Microsoft Windows Network Infrastructure	3
CNT 222	Managing a Microsoft Windows 2000 Network Environment	4

**Minimum Credits Required for the Program:** 14

Footnotes:

*\*This program is designed to be completed in a two semester time frame.*

**WASHTENAW COMMUNITY COLLEGE  
PROGRAM APPROVAL DOCUMENT**

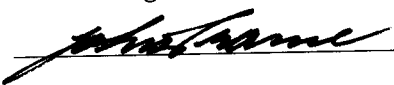
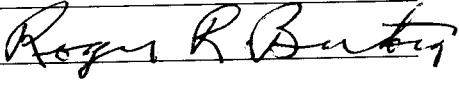
1. Program Name: Computer Network Operating Systems Program Code: \_\_\_\_\_  
 2. Division: \_\_\_\_\_ 3. Department: \_\_\_\_\_ CIP Code: \_\_\_\_\_  
 4. Type of Award:  A.A.  A.S.  A.A.S.  Certificate of Completion  Certificate  Advanced Certificate  Post Associate Certificate  
 5. Is this an occupational program eligible for Perkins Funding?  yes  no 6. Effective Term: \_\_\_\_\_

**7. Program Description:**  
 (Provide a succinct paragraph describing the program. Indicate program goals. List the jobs for which the students will be prepared. Give specifics about the career, e.g. special skills and knowledge required, certifications or licenses needed, transfer and long-term employment opportunities. Indicate the difference between the associate degree and certificate programs, if applicable.) Space will open as you type.

This program prepares you for a job as a network administrator, where you will install, configure, and troubleshoot Local Area Networks. The focus is placed on Microsoft servers and clients. It also gives you the knowledge you'll need to pass the Microsoft Certified Systems Engineer (MCSE) exams.

8. Program Advisors: John Trame, Michael Galea, and Roland Meade

<b>9. Admissions Criteria:</b> (College level courses may not be used as admission requirements for programs, except for Advanced or Post-Associate Certificates.)	<b>10. Criteria for Continuing Program Eligibility:</b>
Successful completion of the Computer Systems Technology Certificate or equivalent industry experience.	

Approval Recommended:	Print Name	Signature	Date
Program Initiator:	<u>John Trame</u>		<u>2/15/2001</u>
Dept. Chair/Director:	_____		<u>3/6/01</u>
Dean/Administrator:	_____	_____	_____
Exec VP of Instruction:	<u>Guy Altieri</u>	_____	_____
President:	<u>Larry Whitworth</u>	_____	_____
Date of Board Approval:	_____		

**A. CURRENT AND PROJECTED ENROLLMENT**

1. Estimated Number of Students per Year

Year	Headcount (unduplicated)	Contact Hours
1999-2000		
2000-2001	<del>40</del>	
2001-2002	40 <del>50</del>	7,200
<del>2002-2003</del>	50	

2004 4800  
 2005 2400  
 -----  
 7,200  
*~~~~~*

2. How long is this program expected to continue?

**B. PROJECTED BUDGET**

1. Start-up Costs

Expenditures	Amount
Salaries and Fringes for Development	SNA
Travel	SNA
Training Costs	SNA \$ 600
Equipment Purchase/Lease	SNA
Facility Construction/Renovation	SNA
Other Direct Costs (specify) <i>software</i>	SNA \$4000.
<b>Total</b>	\$ 4,600

2. Ongoing Costs of Operation

Expenditures	Amount
Instructional Salaries and Fringes	\$ <del>230.00</del> - 60
Aides and Paraprofessionals Salaries and Fringes	\$ 90
Instructional Travel and Advisory Committees	\$ 40
Instructional Supplies and Materials	\$
Equipment Purchase/Lease	\$
Other Direct Costs (specify)	\$
<b>Total</b>	\$ <del>230.00</del> 330

3. Revenues

	Tuition	Fees	Local/State Funds	Federal Funds	Other Specify	Total
1999-00	\$	\$	\$	\$	\$	\$
2000-01	\$	\$	\$	\$	\$	\$

**C. PERSONNEL**

	Existing Faculty		New Faculty	
	Full-Time	Part-Time	Full-Time	Part-Time
Current year				
Next year	1.5	6		



**D. NEEDS ASSESSMENT** (Answer the following questions.)

1. Staff or firm that conducted the survey. ICARD
2. Date study was conducted. \_\_\_\_\_
3. Geographic area to be served by the program (cities and counties)  
\_\_\_\_\_

4. Number of employers surveyed. \_\_\_\_\_
5. Number of skilled persons, in the geographical area, currently employed in the occupation for which the program could provide training.

	Full-Time Employees	Part-Time Employees
Currently employed		
Receiving On-the-Job Training		

6. Employment Opportunities in the local market area and the State of Michigan. (Projected number of full-time and part-time positions within one year and in five years)

	Local Area				Michigan			
	One Year		Five Years		One Year		Five Years	
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
Certificate Holders								
Degree Holders								
Limited Course Work								

7. Expected starting wage rate (excluding benefits):  
 Certificate holders \$ \_\_\_\_\_ Associate Degree holders \$ \_\_\_\_\_
8. Student interest survey results indicating the number of students interested in pursuing this program area  
 Total Number Surveyed \_\_\_\_\_  
 Number interested in an associate degree \_\_\_\_\_  
 Number interested in a certificate \_\_\_\_\_  
 Number interested in limited coursework \_\_\_\_\_
9. List similar educational opportunities within the geographic area currently served by the college.

## E. COURSE REQUIREMENTS AND SEMESTER SEQUENCE

1 <sup>st</sup> Semester Courses			
Course	Title	Credit	Pre-requisites/Co-requisites
CNT 201	Managing Microsoft Workstations	2	<i>Completion of CSTC</i>
CNT 211	Administering Microsoft Networks	3	
2 <sup>nd</sup> Semester Courses			
Course	Title	Credit	Pre-requisites/Co-requisites
CNT 221	<ul style="list-style-type: none"> <li>Implementing a Microsoft Windows Network Infrastructure</li> </ul>	4	CNT 211
CNT 231	<ul style="list-style-type: none"> <li>Implementing a Microsoft Windows Directory Services Infrastructure</li> </ul>	4	CNT 211
3 <sup>rd</sup> Semester Courses			
Course	Title	Credit	Pre-requisites/Co-requisites
CNT 241	<ul style="list-style-type: none"> <li>Designing a Microsoft Windows Directory Services Infrastructure</li> </ul>	2	CNT 231
CNT 251	<ul style="list-style-type: none"> <li>Designing Security for a Microsoft Network</li> </ul>	4	CNT 231
4 <sup>th</sup> Semester Courses			
Course	Title	Credit	Pre-requisites/Co-requisites
CNT 261	Designing a Microsoft Network Infrastructure	3	CNT 251
5 <sup>th</sup> Semester Courses			
Course	Title	Credit	Pre-requisites/Co-requisites
6 <sup>th</sup> Semester Courses			
Course	Title	Credit	Pre-requisites/Co-requisites
<b>Credits Required to Complete the Program:</b>			

**F. COURSE DESCRIPTIONS** (List the catalog descriptions for required specialty and support courses)

See the attached syllabi.

**G. ARTICULATION** (Briefly describe your plans to articulate the program with a similar program(s) offered by any secondary and/or four-year baccalaureate degree granting institution(s).

**H. PHYSICAL FACILITIES** (Describe the facilities in which the program will be housed. Specify whether the proposed program will require the construction of new physical facilities, renovation of existing facilities, or use of temporary facilities.)

BE 174 & BE 176

**I. ACCREDITATION/LICENSURE** (Describe the status of the application for recognition, accreditation, or licensing by external agencies, if applicable)

**J. ADVISORY COMMITTEE** (List the names, titles, and organizational affiliations of members of the advisory committee that has been selected to advise the college on the development and implementation of this occupational program. Attach advisory committee meeting minutes that include proposed program recommendations.)

**K. ANALYSIS OF AFFECTED INSTRUCTIONAL UNITS** (Describe the results of consultation with other instructional units and the expected affects this program will have on them.)

# Computer Networking Operating Systems (CVCNOS) Advanced Certificate

Program Effective Term: Fall 2001

This program prepares you for jobs as a network administrator, where you will install, configure, and troubleshoot Microsoft client-server networks. You also will receive preparation for the Microsoft Certified Systems Engineer (MCSE) exams. The credits in this program may be applied toward an associate degree.

## Technology Division

Computer Instruction and Electronics Department

Advisors: Michael Galea, John Trame

## Program Admission Requirements:

•Completion of the Computer Systems Technology Certificate (CTCSTC) with a GPA of 2.0 or better

## Major/Area Requirements (19 Credits)

CNT 201	Managing Microsoft Workstations	2
CNT 211	Administering Microsoft Windows Networks	3
CNT 221	Implementing a Microsoft Windows Network Infrastructure	3
CNT 231	Implementing a Microsoft Windows Directory Services Infrastructure	3
CNT 241	Designing a Microsoft Windows Directory Services Infrastructure	2
CNT 251	Designing Security for a Microsoft Network	3
CNT 261	Designing a Microsoft Network Infrastructure	3

**Minimum Credits Required for the Program:** 19

### Washtenaw Community College EEO / Title IX / Section 504 Statement

Washtenaw Community College does not discriminate on the basis of race, sex, color, religion, national origin, age, disability, height, weight, marital status, or veteran status in provision of its educational programs and services or in employment opportunities and benefits. WCC is committed to compliance in all of its activities and services with the requirements of Title IX of the Educational Amendments of 1972, Public Act 453, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964 as amended, Public Act 220, and the Americans with Disabilities Act of 1990. Inquiries concerning programs and services under Title IX and Section 504, and the Americans with Disabilities Act should be directed to the Office of the Dean of Student Services; Room 225A, Student Center Building, 734- 973-3536. Inquiries regarding compliance in employment should be directed to the College Affirmative Action Officer in the Office of Human Resource Management, Room 120, Business Education Building, 934- 973-3497. Inquiries concerning access to facilities should be directed to the Director of Plant Operations, Plant Operations Building, 734- 677-5300.