Science, Computer Technology, Engineering & Math

Computer Systems and Networking (APCSN)

Associate in Applied Science Degree Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

In this associate degree program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system, networking, and scripting courses that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems (Server and Client), and Linux Network Operating Systems.

Articulation:

Eastern Michigan University, several BS degrees

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php.

Minimum Concentration Credits Required for the Program:

Command Line Fundamentals

Computer Systems Technology I

Computer Systems Technology II

Local and Mobile Networking Essentials

Select a concentration.

Computer Systems and Networking Concentrations

Microsoft Netw	ork Operating System (MNOS)	(62 credits)
First Semester		(15 credits)
CST 120	Command Line Fundamentals	3
CST 160	Computer Systems Technology I	4
CST 165	Computer Systems Technology II	4
CST 185	Local and Mobile Networking Essentials	4
		(4.6 11:)
Second Semest		(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems Introduction to Networks	3
CNT 206 Elective	2110.000001011.00110110	4
Elective	Writing Elective(s)*	3
Elective	Math Elective(s)	3
Third Semester		(15 credits)
CNT 211	Installation, Storage, and Compute - Windows Server	4
CNT 216	Switching, Routing and Wireless Essentials	4
CNT 223	Networking with Windows Server	4
Elective	Nat. Sci. Elective(s)	3
Fourth Semest		(16 credits)
BMG 205 or	Creating the Customer Experience	(10 Credits)
CST 270	Computer Forensics	3-4
CNT 224	Identity with Windows Server	4
Elective	Speech/Comp. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 62	
Local and Wide	Area Networking (NETW)	(62 credits)
Local and Triac	The nettoning (no. 11)	or di cuito)

First Semester

CST 120

CST 160

CST 165

CST 185

4

(15 credits)

Second Semest	er	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server	4
Elective	Writing Elective(s)*	3
Elective	Math Elective(s)	3
Third Semester		(17 credits)
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics	3-4
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
Elective	Soc. Sci. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Fourth Semeste	er	(14 credits)
CNT 226	Enterprise Networking, Security, and Automation (ENSA)	4
CNT 290 or	Network Forensics	
CSS 210	Network Perimeter Protection - CCNA Security	4
Elective	Speech/Comp. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 62	
Minimum Credi	ts Required for the Program:	62

Notes:

^{*}Students transferring to a 4-year college should consider taking ENG 111 and completing MTA.

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: APCSN	Current Program Name: Computer Systems and Networking	Effective Term: Fall 2024
Division Code: BCT	Department:Computer Science & IT	

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 <u>Program Assessment Plan Change</u> 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 <u>Curriculum and Assessment</u> Program Information page.

Requested Changes:					
☐ Remove course(s): CNT 223 & CNT 224 from the	e NETW concentration.				
Add course(s):	☐ Program outcomes (may also result from				
removing or adding a course)* □ Program title (new title is	_)				
☐ Description	☐ Program assessment plan*				
☐ Advisors	☐ Accreditation information				
	☑ Other				
☐ Program admission requirements☐ Continuing eligibility requirements					
	Note: A change to the Award Type requires the submission of a new program proposal form and a separate				
Show all changes on the catalog page you attach.	program inactivation form. Contact the Director of Curriculum & Assessment for more information.				
* Please submit a Program Assessment Plan Change form.					

Rationale for proposed changes:

Layout Changes. Removing CNT 223 & CNT 224 from the either/or option on the NETW concentration. Students will now be required to take CNT 211 which better aligns with the degree outcomes.

Financial/staffing/equipment/space implications: None					
List departments that have been Computer Science & Information T		heir use of this program.			
Signatures:					
Reviewer	Print Name	Signature	Date		
Initiator	Michael Kidd	Milli,	10-12-27		
Department Chair	Scott Shape	IN M	10-12-23		
Division Dean/Administrator	Ein Samulski	Eis Samulski	10-16-23		
or by	e-mail to curriculum.ass	f Curriculum & Assessment, SC 257 essment@wccnet.edu ees we will secure the signature of the V			
Reviewer	Print Name	Signature	Date		
Office PROGRAM CHANGE FORM	e of Curriculum & Assessment P	rage 1 of 2 Revised 4/1/21 WASHTENAW COMMUNIT	Y COLLEGE		
Curriculum Committee Chair	Randy Van Wagne	n / lanh	1-7-24		
Assessment Committee Chair	Jessica Hale	Male	1/8/24		
Vice President for Instruction	D <u>r</u> . Brandon Tucker	The	2/8/24		
		.01			

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Reviewed by C&A Committees 11/16/23

Science, Computer Technology, Engineering & Math

Computer Systems and Networking (APCSN)

Associate in Applied Science Degree **Program Effective Term:**

High Demand Occupation High Skill Occupation High Wage Occupation

In this associate degree program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system, networking, and scripting courses that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems (Server and Client), and Linux Network Operating Systems.

Eastern Michigan University, several BS degrees

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Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Microsoft Netw	vork Operating System (MNOS)	(62 credits)
First Semester		(15 credits)
CST 120	Command Line Fundamentals	3
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Second Semes	ter	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semeste	r	(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semest	er	(14 credits)
CNT 223	Networking with Windows Server	4
CNT 224	Identity with Windows Server	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Cred	its Required for the Concentration or Option: 62	
Local and Wide	e Area Networking (NETW)	(62 credits)
First Semester		(15 credits)
CST 120	Command Line Fundamentals	3
CST 160	Computer Technology I	4

Computer Technology II

Local and Mobile Networking Essentials

CST 165

CST 185

Second Semes	ster	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server	
CNT 223 or	Networking with Windows Server	
CNT 224	Identity with Windows Server	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semeste	er	(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semes	ter	(14 credits)
CNT 226	Enterprise Networking, Security, and Automation (ENSA)	4
CNT 290 or	Network Forensics	
CSS 210	Network Perimeter Protection - CCNA Security	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Cred	dits Required for the Concentration or Option: 62	

Minimum Credits Required for the Program:

62

Notes:

*Students transferring to a 4-year college should consider taking ENG 111 and completing MTA.

Received by C&A 5/31/23 WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: APCSN	Current Program Name: C Systems and Networking	omputer	Effective Term:	F 2024	
Division Code: BCT	Department: CSIT				
 Directions: Attach the current program listing from the WCC catalog or website and indicate any changes to be made. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet. 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. 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.					
Remove course(s):CST Add course(s):CST 120 Program title (new title is Description Advisors Program admission require Continuing eligibility require					
Rationale for proposed changes: In discussion and review with our advisory board and relevant faculty, all feel that although the course content and exercises are brought up to current levels of technology (a much-needed upgrade), much more is needed in the way of additional content. It is not possible to implement all of the material needed for today's entry-level positions in a two-credit hour course. This is due to significant advances in the administrative functions of the Windows command line and more demanding PowerShell utilizations over the past couple of decades, something that did not exist when this course was originally created. Not to mention that floppy disks are not utilized any longer and the previous version of this course (revised last year) used them. This course uses the same contact hours as it did 23 years ago while the Microsoft operating systems exploded with functionality. Basically, students do not have enough exposure to make them proficient and are experiencing a disconnect between the Microsoft and Linux command line courses and need stronger foundations and experiences in both scripts and command line fundamentals.					
Financial/staffing/equipment/space implications: None					
List departments that have b	List departments that have been consulted regarding their use of this program. CSIT				
Signatures:					
Reviewer	Print Name	Signa	ature	Date	

PROGRAM CHANGE FORM

Initiator	James Lewis	James Lewis	May 5 2023
Department Chair	Scott Shaper	Scott Shaper	5/5/2023
Division Dean/Administrator	Eva Samulski	Eva Samulski	05/31/2023
Please return compl	eted form to the Office of	f Curriculum & Asseşsment, SC 2	257
	e-mail to curriculum.ass		
Once reviewed by the ap	propriate faculty committee	es we will secure the signature of the	VPI.
Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Randy Van Wagnen	Randy Van Wagnen	08/23/23
Assessment Committee Chair	Jessica Hale	Jessjca Hale	08/28/23
Vice President for Instruction	Victor Vega		9/06/2023

Reviewed by C&A Committees 8/3/23

Science, Computer Technology, Engineering & Math

Computer Systems and Networking (APCSN)

Associate in Applied Science Degree Program Effective Term: Fall 2022

High Demand Occupation High Skill Occupation High Wage Occupation

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Articulation

Eastern Michigan University, several BS degrees

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php.

Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Microsoft Netv	vork Operating System (MNOS)	(61 credits)
First Semester	•	(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Second Semes	ter	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semeste		(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	
Elective	Soc. Sci. Elective(s)	3
Fourth Semest		(14 credits)
CNT 223	Networking with Windows Server 2016	4
CNT 224	Identity with Windows Server 2016	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Cred	its Required for the Concentration or Option: 61	
Local and Wid	e Area Networking (NETW)	(61 credits)
First Semester	•	(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4

Second Semes	ster Ster Ster Ster Ster Ster Ster Ster S	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semeste	er	(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semes	iter	(14 credits)
CNT 226	Enterprise Networking, Security, and Automation (ENSA)	4
CNT 290 or	Network Forensics	
CSS 210	Network Perimeter Protection - CCNA Security	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Cred	dits Required for the Concentration or Option: 61	
	the part of the state of	

Minimum Credits Required for the Program:

61

Notes:

*Students transferring to a 4-year college should consider taking ENG 111 and completing MTA.

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: APCSN Current Program Nam Systems & Networkin			Effective Term:	Fall 2022	
Division Code: BCT	Department: CSIT				
 Directions: Attach the current program listing from the WCC catalog or website and indicate any changes to be made. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet. 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. 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): Add course(s): Program outcomes (may also result from removing or adding a course)* Program title (new title is Description Advisors Program admission requirements 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. * Please submit a Program Assessment Plan Change form.					
Rationale for proposed chan Concentration is no longer offere		from the catalog.			
Financial/staffing/equipment/space implications:					
List departments that have b	een consulted regardir	g their use of this pr	ogram.		
Signatures:					
Reviewer	Print Name	Sign	ature	Date	
Initiator	Cyndi Millns	Cyndi Millns		7/12/21	
Department Chair	Cyndi Millns	Cyndi Millns		7/12/21	
Division Dean/Administrator	Eva Samulski	Eva San	nulski	07/13/2021	

Reviewed by C&A Committees 9/16/21

Signature

Date

Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.

Print Name

Division Dean/Administrator

Reviewer

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Curriculum Committee Chair	Randy Van Wagnen	RVmh	9/23/21
Assessment Committee Chair	SANDERON	100	10.6.31
Vice President for Instruction	Kimberly Hurns	for he	10-6-21
Do not write in shad	ed area. Entered in: Banner	C&A Database 19/3/22 Log Fi	le 10/13/22

Reviewed by C&A Committees 9/16/21

Science, Computer Technology, Engineering & Math

Computer Systems and Networking (APCSN)

Associate in Applied Science Degree Program Effective Term: Fall 2021

High Demand Occupation High Skill Occupation High Wage Occupation

In this associate degree program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system, networking, and scripting courses that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems (Server and Client), and Linux Network Operating Systems.

Articulation

Eastern Michigan University, several BS degrees

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Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Linux Network	Operating System (LNOS)	(62 credits)
First Semester		(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Second Semest	ter termination of the state of	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semester		(19 credits)
CIS 206	Linux/UNIX II: Basic System Administration, Networking, and Security	4
CIS 221	Linux/UNIX Programming and Scripting I	4
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
Elective	Nat. Sci. Elective(s)	3
Fourth Semest	er	(13 credits)
CIS 208	Linux/UNIX III: Intermediate System Administration, Networking, and Security	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 62	
Microsoft Netw	ork Operating System (MNOS)	(61 credits)
First Semester		(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4

		(4.6
Second Semest		(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semester	•	(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semest		(14 credits)
CNT 223	Networking with Windows Server 2016	4
CNT 224	Identity with Windows Server 2016	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Credi	its Required for the Concentration or Option: 61	
riiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	nes required for the concentration of options of	
Local and Wide	e Area Networking (NETW)	(61 credits)
First Semester		(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Second Semest	ter	(16 credits)
CIS 120	Linux/UNIX I: Fundamentals	3
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	3
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semester		(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Switching, Routing and Wireless Essentials	4
BMG 205 or	Creating the Customer Experience	_
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semest	er	(14 credits)
CNT 226	Enterprise Networking, Security, and Automation (ENSA)	4
CNT 290 or	Network Forensics	·
CSS 210	Network Perimeter Protection - CCNA Security	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Credi	its Required for the Concentration or Option: 61	

Notes:

Minimum Credits Required for the Program:

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WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: Program Name: Computer Systems and Effective Term: Fall 2021

APCSN Networking Associate Degree

Division Code: Department: CSIT

BCT

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- 1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
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- 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.

using a Master Syllabus form, but should be submitted	at the same time as the program change form.
Requested Changes:	
Review Remove course(s): Add course(s): CSS 210 or CNT 290 Program title (title was) Description Type of award Advisors Articulation information Show all changes on the attached page from the catalog.	 □ Program admission requirements □ Continuing eligibility requirements □ Program outcomes □ Accreditation information □ Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) ☑ Other Course name Change for CNT 216 & 226
Chow an oranged on the attached page from the catalog.	
Rationale for proposed changes or discontinuation: The Cisco Networking Academy has updated the program. It i course. We are changing our program to stay in compliance w	
Financial/staffing/equipment/space implications:	
None	
List departments that have been consulted regarding No other departments need to be consulted.	their use of this program.
Signatures:	

Signatures: Reviewer	Print Name	Signature	Date
Initiator	John P. Trame	John Trame	9/4/2020
Department Chair	Cyndi Millns	Cyndi Millns	9/8/2020
Division Dean/Administrator	Eva Samulski	Eva Samulski	09/09/2020
		e of Curriculum and Assessment (
Once reviewed by the app	ropriate faculty committees	we will secure the signature of the VP	PI and President.
Vice President for Instruction	Kimberly Hurns	Kimberly Hurns	10/22/2020
President	Rose B. Bellanca		

Do not write in shaded area. Entered in: Banner C&A Database Log File Board Approval

Science, Computer Technology, Engineering & Math

Computer Systems and Networking (APCSN)

Associate in Applied Science Degree

Program Effective Term: Fall 2020

In this associate degree program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system, networking, and scripting courses that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems (Server and Client), and Linux Network Operating Systems.

Articulation

Eastern Michigan University, several BS degrees

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Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Linux Network	Operating System (LNOS)	(63 credits)
First Semester		(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Second Semest	ter termination of the state of	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semester		(19 credits)
CIS 206	Linux/UNIX II: Basic System Administration, Networking, and Security	4
CIS 221	Linux/UNIX Programming and Scripting I	4
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
Elective	Nat. Sci. Elective(s)	3
Fourth Semest	er	(13 credits)
CIS 208	Linux/UNIX III: Intermediate System Administration, Networking, and Security	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 63	
Microsoft Netw	ork Operating System (MNOS)	(62 credits)
First Semester		(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4

Second Semest		(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semester	•	(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semeste	er	(14 credits)
CNT 223	Networking with Windows Server 2016	4
CNT 224	Identity with Windows Server 2016	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 62	
Local and Wide	Area Networking (NETW)	(62 credits)
- :		(4.4 19.3
First Semester	Microsoft Command Line Frindementale	(14 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165 CST 185	Computer Technology II Local and Mobile Networking Essentials	4
C31 103	Local and Mobile Networking Essentials	4
Second Semest	er	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Third Semester		(17 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semeste		(14 credits)
CNT 226	Scaling Networks	4
CNT 290 or	Network Forensics	
CSS 210	Network Perimeter Protection - CCNA Security	4
Elective	Writing Elective(s)*	3
Elective	Arts/Human. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 62	

Notes:

Minimum Credits Required for the Program:

^{*}Students transferring to a 4-year college should consider taking ENG 111 and completing MTA.

Received C=A 3/5/20
WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: (APCSN) Program Name: Computer Systems & Effect

Effective Term: Fall 2020

Networking

Division Code: BCTD Department: CIS

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:	
 Review Remove course(s): CST275, CIS161 & CNT236 Add course(s): CNT290 & CSS210 Program title (title was	 □ Program admission requirements □ Continuing eligibility requirements □ Program outcomes □ Accreditation information □ Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) ☑ Other 1. Forensics Concentration is being eliminated. 2. CIS221 has been moved to the third semester in the Linux concentration. 3. A number of General Education courses have been moved to different semesters. 4. "BMG205 or CST270" have been changed from "4" to "3". 5. Remove Mike Galea from the list of advisor. 6. Remove CIS 161 from the program 7. Remove CNT 236 from program and add CNT 290 or CSS 210 to the program 8. Remove the year from the title of CNT 211, 223 and 224

Rationale for proposed changes or discontinuation:

- 1. The Forensics concentration is being eliminated. There are two reasons which justify this change. The first is that the two Forensics courses, CST270 and CNT290 which would make up the primary courses in the Forensics concentration are now included in one of the Cisco Concentration options which if taken, would result in a virtually identical path as a revised Forensics Concentration. Secondly, the two Forensics courses will be also be included as part of the CSS Security Degree program. For these two reasons, there is no justification for a separate Forensics concentration.
- 2. With the Linux concentration, CIS221 has been moved to the Third Semester to provide consistency within the Linux Program.
- 3. A number of General Education courses have been switched around to better balance the hours for all semesters, and to lower the hours for the first semester of the program, eliminating the overwhelming effect that a high number of hours for the first semester can have on beginning students starting out in our programs.
- 4. The "or" option for the CST270 or BMG205 is being changed to reflect the lower of the two courses (BMG205

is three credit hours) as we are trying to show in our programs the minimum amount of hours to complete the degree.

- 5. Mike Galea has retired and shouldn't be listed as an advisor.
- 6. CIS161, PowerShell, is being removed as a requirement for all concentrations which are part of the Associate Degree. The justification for this lies with the objectives for that class being better suited for a programming discipline with the Administrative aspects of PowerShell already significantly included in the Windows classes. The basic scripting, which had been also part of the PowerShell class will now be included in CIS121, the first Linux Course
- 7. The Cisco concentration uses materials developed by Cisco directly, and they are making a significant change to their CCNA program, resulting in it being reduced to three courses. However, for the Cisco concentration in our Degree and Certificate programs, the desire is to keep the concentration at four courses at WCC. Therefore in line with this, and the increased emphasis on Network Security, we will include a fourth course, replacing CNT236 which will be an option of either CNT290, Network Forensics (face to face) OR CSS210 Network Perimeter Protection CCNA Security (giving an on-line option for Cisco completion matching up with the on-line option for the other three Cisco courses.). In line with this, in the Cisco concentration, even though CST 270 (Digital Forensics) is a requirement to take CNT290, (Network Forensics), with the on-line alternative to this course, CSS 210, the students should have the on-line option of BMG205 so that both requirements could be satisfied on-line, as CST270 is not a required option for CSS 210.
- 8. The version of Windows Server (2016) has been deleted from the Windows Server Class Titles (CNT211, CNT223, and CNT224) in order to eliminate having to change the course titles every time a new version comes out, which lately has been in less than a two year period. (We are presently using Server 2019)

Financial/staffing/equipment/space implications: NONE

List departments that have been consulted regarding their use of this program. CIS, CNT, CST

Signatures:

Reviewer	Print Name	Signature	Dațe
Initiator	William Reichert	tradaistailled	7 28 302
Department Chair	Punde Millins	Caurd Mulns	
Division Dean/Administrator	Ela Vamuski	Es Jamulski	3-2-20
Please submit cor Once reviewed by the app	mpleted form to the Office of ropriate faculty committees we w	Curriculum and Assessment (SC 257)	7). resident.
Vice President for Instruction	Kimberly Hurns	Kim With-	4-15-2020
President	Rose B. Bellanca	0 1	
Do not write in shaded area. Entere	ed in: Banner C&A Databa	ise Log File Board A	pproval

Reviewed by C&A Committees 3/26/20

Computer Systems and Networking (APCSN) Associate in Applied Science Degree

Program Effective Term: Fall 2019

In this program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system and scripting that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems, Linux Network Operating Systems, Computer and Network Security, or Data Recovery.

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/curriculum/articulation/levelone/colleges/.

Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Computer Fore	ensics (CSFC)	(63 credits)
First Semester	CHARLES AND RESIDENCE OF THE STATE OF THE ST	(17 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Elective	Speech/Comp. Elective(s)	3
Second Semes	ter i i i i i i i i i i i i i i i i i i i	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
Third Semeste		(15 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
CST 270	Computer Forensics I	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semest	ter the same of th	(14 credits)
CIS 161	Introduction to PowerShell	4
CST 275	Computer Forensics II	4
Elective	Arts/Human. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Minimum Cred	its Required for the Concentration or Option: 63	
Linux Network	Operating System (LNOS)	(67 credits)
First Semester	AND IN THE MEDICAL PROPERTY OF THE PROPERTY OF	(17 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Elective	Speech/Comp. Elective(s)	3
Second Semes	ter	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
		Page 2 of 7

CNT 211 or CNT 223 or CNT 224 Elective Elective	Installation, Storage, and Compute - Windows Server 2016 Networking with Windows Server 2016 Identity with Windows Server 2016 Math Elective(s) Writing Elective(s)	4 3 3
Third Semest		(18 credits)
CIS 206 CNT 206	Linux/UNIX II: Basic System Administration, Networking, and Security Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
Elective Elective	Nat. Sci. Elective(s) Soc. Sci. Elective(s)	3
		(15 credits)
Fourth Semes CIS 161	Introduction to PowerShell	4
CIS 221	Linux/UNIX Programming and Scripting I	4
CIS 208 Elective	Linux/UNIX III: Intermediate System Administration, Networking, and Security Arts/Human. Elective(s)	4 3
Minimum Cre	dits Required for the Concentration or Option: 67	DESCRIPTION OF STREET
Microsoft Net	work Operating System (MNOS)	(67 credits)
First Semeste		(17 credits)
CST 118 CST 160	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Elective	Speech/Comp. Elective(s)	3
Second Seme		(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201 CNT 211	Administering Microsoft Windows Client Operating Systems Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
Third Semest	er i kalikus a aksali i i i i kalikus	(18 credits)
CNT 206	Introduction to Networks	4
CNT 216 BMG 205 or	Routing and Switching Essentials Creating the Customer Experience	4
CST 270	Computer Forensics I	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Seme		(15 credits)
CIS 161	Introduction to PowerShell	4
CNT 223 CNT 224	Networking with Windows Server 2016 Identity with Windows Server 2016	4
Elective	Arts/Human. Elective(s)	3
Minimum Cre	dits Required for the Concentration or Option: 67	
	de Area Networking (NETW)	(67 credits)
First Semeste	Microsoft Command Line Fundamentals	(17 credits)
CST 118 CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 185	Local and Mobile Networking Essentials	4
Elective	Speech/Comp. Elective(s)	
Second Seme		(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4 3
CNT 201	Administering Microsoft Windows Client Operating Systems	5
Tuesday, Februa	ry 19, 2019 1:10:55 p.m.	Page 3 of 7

Time Schicotor, and the second	
Elective Math Elective(s) Elective Writing Elective(s) Third Semester (18 c	
Elective Writing Elective(s) Third Semester (18 c	4
Third Semester (18 c	3
Time Schicotor, and the second	3
CNIT 206 Introduction to Notworks	redits)
CNT 206 Introduction to Networks	4
CNT 216 Routing and Switching Essentials	4
BMG 205 or Creating the Customer Experience	
CST 270 Computer Forensics I	
Elective Nat, Sci. Elective(s)	3
Elective Soc. Sci. Elective(s)	3
Fourth Semester (15 c	redits)
CIS 161 Introduction to PowerShell	2
CNT 226 Scaling Networks	4
CNT 236 Connecting Networks	4
Elective Arts/Human, Elective(s)	3
Minimum Credits Required for the Concentration or Option: 67	
Minimum Credits Required for the Programs	63

PROGRAM CHANGE OR DISCONTINUATION FORM

ProgramCode:(APCSN) Program Name: Computer Systems & Networking Effective Term: Fall 2019

Division Code: BCTD Department: CIS

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:	
☐ Review ☐ Remove course(s): CST225, Security Track ☐ Add course(s): CST185, CNT223, CNT224 ☐ Program title (title was	 □ Program admission requirements □ Continuing eligibility requirements □ Program outcomes □ Accreditation information □ Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) ☑ Other 1. Total Credit Hours for each of the five for alternate paths for getting this degree have increased by one. 2. CNT223, or CNT224, are alternates to CNT211 for four of the five options – the other option already includes them. They do NOT add additional credit hours to the program. 3. Removal of the Security Track as part of this degree

Rationale for proposed changes or discontinuation:

The Program is being changed to align with five changes, the first three deal with the change of Class Number, Title and Credit hours for CST225/CST185 which were reflected in the recent syllabus update.

- 1. Course Number is being changed to reflect that it is part of the first-year of the CTCSTC program, along with CST118, CST160, and CST165. Also it is now an initial course in the Automotive Department Programs as well.
- 2. Course Name is being changed to reflect that Networking's scope, types of Devices, etc. has vastly changed in the last five to 10 years networking is no longer restricted to in-office LAN networks.
- 3. Credit hours for the Course (3 to 4) is being changed to reflect the actual contact hours per week in the course (4) and to support the additional material (both lectures and labs) reflecting new and varied types of networking (such as that used in Autonomous vehicles) that are being introduced the change is reflected in the credit hour totals for each of the alternate paths that make up this Associate Degree and is shown below for each.
- 4. The fourth change deals with alternatives for taking the Microsoft Server Administration Requirement. Starting with Server 2016, Microsoft no longer uses a stepped structure with the three MCSA certification courses building on each other i.e. a beginning level course, a more advanced course, and a most advanced course. With Server 2016, the three courses now are all "independent" of each other, covering different areas of Administration. This has real advantages for the Students:
 - a. Students will have the opportunity to take the course which may best fit their interests and goals, the program they are enrolled in, etc.
 - b. With three possible courses, more times are available for taking courses which better fit student schedules
- 5. Fifth change is the removal of the Security Track, as there is a totally new Cyber Security Associate Degree.

Financial/staffing/equipment/space	implications
NONE	

lagged 1/15/19

List departments that have been consulted regarding their use of this program. CST, CNT, CIS APASRV, CTASVT, APATT

Signatures	s	ia	n	a	tu	re	S	:
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Reviewer	Print Name	Signature	Date
Initiator	William Reichert	William Reichert	12/28/2018
Department Chair	Phil Geter	Muss Zyn	1/12/20
Division Dean/Administrator	En Samuski	Em Jamulski	1-22-19
	mpleted form to the Office of	Curriculum and Assessment (S	SC 257).
Please submit co Once reviewed by the app	ropriate faculty committees we	will secure the signature of the VPI	and President.

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Computer Systems and Networking (APCSN)

Associate in Applied Science Degree

2016 - 2017 > 2017 - 2018

Description

In this program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system and scripting that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems, Linux Network Operating Systems, Computer and Network Security, or Data Recovery.

Articulation

Davenport University, Bachelor degree; Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: www.wccnet.edu/curriculum/articulation/levelone/colleges/.pd

Contact Information

Division: Business/Computer Technologies

Department: Computer Instruction Dept

Advisors: Michael Galea

Philip Geyer James Lewis

William Reichert John Trame

Requirements

(Items marked in orange are available online.)

Select a concentration for requirements and total credits required for program.

Computer Forensics (CSFC) First Semest to exit full screen Minimum Class Microsoft Command Line Fundamentals CST 118 **CST 160** Computer Technology I Computer Technology II **CST 165** 00T 225 Local and Mobile Networking Essentials CST185 Writing/Composition or Communication Elective(s) Total Second Semester Minimum Credits Class Title Linux/UNIX I: Fundamentals CIS 121 Administering Microsoft Windows Client Operating Systems **CNT 201** Installation, Storage, and Compute - Windows Server 2016 **CNT 211** OR **Networking with Window Server 2016** CNT223 OR CNT224 **Identity with Windows Server 2016** Elective(s) Math 3 Elective(s) Writing/Composition Total Third Semester Minimum Title Class Introduction to Networks **CNT 206** Routing and Switching Essentials **CNT 216** Computer Forensics I **CST 270** 3 Elective(s) Social and Behavioral Science 15 Total

Fourth Seme	ster	¥	
Class	Title		nimum Credits
CIS 161	Introduction to Power9hell	ECONOMISSION CONTRACTOR OF THE PARTY OF THE	4
CST 275	Computer Forensics II		4
Elective(s)	Arts and Humanities		3
Elective(s)	Natural Sciences		3
Total			14

CST 278 discontinued, removed from program



First Semes	ter	
Class	Press F11 to exit full screen	Minimum Credits
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
00T 225	- TO Networking	
CST185	Local and Mobile Networking Essentials	4
Elective(s)	Writing/Composition or Communication	3
Total		16

Second Semester

Class	Title Minimum Credits
<u>CIS 121</u>	Linux/UNIX I: Fundamentals 4
CNT 201	Administering Microsoft Windows Client Operating Systems 3
CNT 211	Installation, Storage, and Compute - Windows Server 2016 4
OR	

CNT224	Identity with Windows Server 2016	4
OR		
CNT223	Networking with Window Server 2016	4

Elective(s)	<u>Math</u>	25	3
Elective(s)	Writing/Composition		3
Total			17

Third Semester

Class	Title	Minimum Credits
CIS 206	Linux/UNIX II: Basic System Administration, Networking, and Security	4
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
Elective(s)	Natural Sciences	3
Elective(s)	Social and Behavioral Science	3
Total		18

Fourth Semester

Class	Title	Minimum Credits
CIS 161	Introduction to PowerShell	4
CIS 221	Linux/UNIX Programming and Scripting I	4
CIS 208	Linux/UNIX III: Intermediate System Administration, Networking, and Security	4
Elective(s)	Arts and Humanities	3
Total		15

Microsoft Network Operating System (MNOS)

Arts and Humanities

Elective(s)
Total

irst Semeste		
ist semest		erah erikan di Astalikasia
Class	Press F11 to exit full screen	Minimum Credits
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
VOT 223	T C Metworking	
T185	Local and Mobile Networking Essentials	4
Elective(s)	Writing/Composition or Communication	
Total		
econd Sem	ester	
Class	Title	Minimum Credit
		Made Linguis in Count
CIS 121	Linux/UNIX I: Fundamentals	
CNT 201	Administering Microsoft Windows Client Operating Systems	
CNT 211	Installation, Storage, and Compute - Windows Server 2016	
Elective(s)	Math	
Elective(s)	Writing/Composition	marka in the second
Total		Marie Constitution of the
	tar	
Third Semes		AND THE RESIDENCE OF STREET, S
		Minimun Credit
Class	Title	Minimun Credit
Class	Title Introduction to Networks	Credit
Class CNT 206 CNT 216	Title Introduction to Networks Routing and Switching Essentials	Credit
Class CNT 206 CNT 216 BMG 205	Title Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience	Credit
Class CNT 206 CNT 216 BMG 205 CST 270	Title Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s)	Title Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I Natural Sciences	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s).	Title Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s)	Title Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I Natural Sciences	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s).	Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I Natural Sciences Social and Behavioral Science	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s). Elective(s). Total	Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I Natural Sciences Social and Behavioral Science	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s) Total Fourth Seme	Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I Natural Sciences Social and Behavioral Science	Credit
Class CNT 206 CNT 216 BMG 205 CST 270 Elective(s) Total Fourth Seme	Introduction to Networks Routing and Switching Essentials or Creating the Customer Experience Computer Forensics I Natural Sciences Social and Behavioral Science	Minimum Credit Minimum Credit

Total Credits Required:

Class	Title	Minimum Credits
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	· 4
OR CNT223	Networking with Window Server 2016	4
OR CNT224	Identity with Windows Server 2016	4

Elective(s)	Math		3
Elective(s)	Writing/Composition	Y	3
Total	9X COUNTY OF THE PARTY OF THE P		17

Third Semester

Class		Title	Minimum Credits	
CNT 206	in terms	Introduction to Networks	4	
CNT 216		Routing and Switching Essentials	4	ł.
BMG 205	OF	Creating the Customer Experience		
CST 270		Computer Forensics I	4)
Elective(s)		Natural Sciences	3	
Elective(s)		Social and Behavioral Science	document to the second	į
Total			18	

Fourth Semester

Class	Title	Minimum Credits
CIS 161	Introduction to PowerShell	4
CNT 226	Scaling Networks	4
<u>CNT 236</u>	Connecting Networks	4
Elective(s)	Arts and Humanities	3
Total		15

Total Credits Required:

APCSN

WCC General Education Requirements Effective Fall 2018

Associate degree programs were updated to meet the revised WCC general education requirements below.

Course Distribution Requirements

Associate degree students must complete courses from each of six General Education content areas. The requirements vary, depending on which degree is being earned. The number of general education credit hours required for each degree is as follows.

	AA	AS	AAS
Writing/Composition	3-4 credits	3-4 credits	3-4 credits
2nd Writing/Composition or Communication	3-4 credits	3 credits	3 credits
Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences ¹	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science ²	6 credits	6 credits	3 credits
Arts and Humanities ³	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

¹ Two courses in Natural Science including one with laboratory experience (from two disciplines)

² From two disciplines

³ From two disciplines

65

Program Information Report

Computer Systems and Networking (APCSN) Associate in Applied Science Degree

Program Effective Term: Fall 2018

In this program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system and scripting that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems, Linux Network Operating Systems, Computer and Network Security, or Data Recovery.

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/curriculum/articulation/levelone/colleges/.

Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Computer a	nd Network Security (CSEC)	(66 credits)
First Semes	ter and the second seco	(16 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech/Comp. Elective(s)	3
Second Sem	iester	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3 4
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
Third Semes	ster	(18 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
CSS 200	Introduction to Network Security - Security+	4
	Nat. Sci. Elective(s)	3
	Soc. Sci. Elective(s)	3
Fourth Semi	ester	(15 credits)
CIS 161	Introduction to PowerShell	4
CSS 205	Essentials of Network Penetration Testing	4
CSS 210	Network Perimeter Protection - CCNA Security	4
Elective	Arts/Human. Elective(s)	3
Minimum Cr	edits Required for the Concentration or Option: 66	
Computer Fo	orensics (CSFC)	(65 credits)
First Semes	ter miles remain electric miles with a management of the contract of the contr	(16 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech/Comp. Elective(s)	3
Second Sem	ester and a second seco	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Monday, June 2	25, 2018 10:27:0 a.m.	()

Elective Elective	Math Elective(s) Writing Elective(s)	3 3
Third Semest	er i de la companya	(15 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
CST 270	Computer Forensics I	4
Elective	Soc. Sci. Elective(s)	3
Fourth Seme	ster and the control of the control	(17 credits)
CIS 161	Introduction to PowerShell	4
CST 275	Computer Forensics II	4
CST 278	Computer Forensics for Mobile Devices	3
Elective	Arts/Human. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Minimum Cre	dits Required for the Concentration or Option: 65	
Maria Company	k Operating System (LNOS)	(66 JA-)
		(66 credits)
First Semeste		(16 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech/Comp. Elective(s)	3
Second Seme	ster to the state of the state	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3 3
Third Semest	er all the same of	(18 credits)
CIS 206	Linux/UNIX II: Basic System Administration, Networking, and Security	
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
Elective	Nat. Sci. Elective(s)	4 3
Elective	Soc. Sci. Elective(s)	3
		3
Fourth Semes		(15 credits)
CIS 161	Introduction to PowerShell	4
CIS 221	Linux/UNIX Programming and Scripting I	4
CIS 208	Linux/UNIX III: Intermediate System Administration, Networking, and Security	4
Elective	Arts/Human. Elective(s)	3
Minimum Cre	dits Required for the Concentration or Option: 66	
Microsoft Net	work Operating System (MNOS)	(66 credits)
First Semeste		
CST 118	Microsoft Command Line Fundamentals	(16 credits)
CST 160	Computer Technology I	2
CST 165	Computer Technology II	4
CST 225	PC Networking	4
Elective	Speech/Comp. Elective(s)	3
Second Seme		
CIS 121	Linux/UNIX I: Fundamentals	(17 credits)
CNT 201	Administering Microsoft Windows Client Operating Systems	4
CNT 201	Automatering Microsoft Windows Cherit Operating Systems	3
Elective	Installation, Storage, and Compute - Windows Server 2016 Math Elective(s)	4
Elective	Writing Elective(s)	3
LICCHYC	when y Liecuve(s)	3

Third Semest	ter Bernard and State	(18 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Seme	ster	(15 credits)
CIS 161	Introduction to PowerShell	4
CNT 223	Networking with Windows Server 2016	4
CNT 224	Identity with Windows Server 2016	- 4
Elective	Arts/Human. Elective(s)	3
Minimum Cre	edits Required for the Concentration or Option: 66	
Local and Wi	de Area Networking (NETW)	(66 credits)
First Semest		(15 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech/Comp. Elective(s)	3
Second Seme	ester	(17 credits)
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server 2016	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
Third Semest	ter services and the services of the services	(18 credits)
CNT 206	Introduction to Networks	4
CNT 216	Routing and Switching Essentials	4
BMG 205 or	Creating the Customer Experience	
CST 270	Computer Forensics I	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Seme	ster make the state of the stat	(15 credits)
CIS 161	Introduction to PowerShell	4
CNT 226	Scaling Networks	4
CNT 236	Connecting Networks	4
Elective	Arts/Human. Elective(s)	3
Minimum Cre	edits Required for the Concentration or Option: 66	
Minimum Cre	edits Required for the Program:	65

A SCHENGISH DELIGHT

Washtenaw Community College

GENERAL EDUCATION REVISION AAS PROGRAM CHANGE FORM 2018-2019

Due December 8, 2017

Program Code: APCSN	Program N		ystems and	Networking
Division Code:	Departmen	ht:	S	

This form is to be used only for General Education Revision Program Changes for Associate in Applied Science (AAS) programs. Any other program changes should be submitted separately using a standard Program Change Form.

Directions:

- 1. Review each general education area under Requested Changes below and respond as needed.
- 2. Attach the semester program layout showing the current program listing from the WCC catalog.
 - a. Indicate any changes to be made on the semester layout.
 - b. Draw a line through any courses that should be removed on the semester layout.
 - c. Write in any courses that need to be added on the semester layout.
- 3. Submit this form and semester program layout to the Office of Curriculum and Assessment (SC 257).

Current General Education AAS	Requirements	Revised General Education Requirement AAS	nts 2018-2019
Writing	3-4 credits	English Composition	3 - 4 credits
Speech Mathematics	3 credits 3 - 4 credits	2 nd Course in English Composition or one course in Communication	3 - 4 credits
Natural Sciences	3 - 4 credits	Mathematics	3 - 4 credits
Social & Behavioral Sciences	3 credits	Natural Sciences	3 - 5 credits
Arts & Humanities	3 credits	Social & Behavioral Sciences	3 credits
Critical Thinking	0 credits	Arts & Humanities from	3 credits
Computer & Information Literacy	3 credits	Total	18 credits
Total	21-24 credits		

Please review each General Education Area in the chart below, and record the needed changes in the chart and on the attached semester program layout.

REQUESTED CHANGES
al Education Area
Composition – The requirement for one writing/English composition course remains the same. No es will be made unless specifically requested below. (Use Writing Elective or ENG 111)
nal Change: None
reviously required both a second composition/writing course and a communication course. Your options Allow students to select any course that meets composition/writing or communication (recommended). Require students to take a specific composition course (identify course below and on semester layout). Require students to take a specific communication course (identify course below and on semester).
- ו ו

Mathematics – The requirement for one mathematics course remains the same. However, the courses that meet the MTA requirement have changed slightly. See the course listing for details				
Optional Change:				
Natural Sciences - The requirement for one natural science course remains the same. No changes will be made unless specifically requested below.				
Optional Change:				
Social & Behavioral Sciences – The requirement for one social and behavioral science course remains the same. No changes will be made unless specifically requested below.				
Optional Change: hone				
Arts & Humanities – The requirement for one arts and humanities course remains the same. No changes will be made unless specifically requested below. (Note: A department can designate a COM course as a requirement here. The same course cannot be counted in two areas.)				
Optional Change: None				
 Computer and Information Literacy The requirement for computer and information literacy has been removed. Your options are: Continue to require a specific computer course. If a specific course is required in your program, we will leave it there. If you previously used "Computer and Information Literacy Course," you will need to specify either a specific course or a list of courses from which to choose. Remove the computer and information literacy course if the program will still meet the minimum of 60 credit hours. Remove the computer and information literacy course and replace the course with elective or other credits as needed to meet the minimum of 60 credit hours. 				
Required Change: None - Not listed as a separate requirement				

Print Name	Signature	Date
Phil Geyer	Ola Gers	12-7-17
Phil Geyer	And Lyn	12-7-17
EVO SAMULSKI	Eva Kamulku	12-12-17
	then let	1/9/18
	Phil Geyer	Phil Geyer And Leyer

Office	1160	on	k,
LIMICE	HSE	nn	IV

Entered in: Banner C&A Database Log File

School of Information Technology

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer networking or programming in the growing field of applied information technology.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, an advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, an advanced certificate (if it exists) and General Education requirements.

Networking

Develop and manage computer networks as a network administrator/engineer.

Computer Systems and Networking (APCSN) Associate in Applied Science Degree

Program Effective Term: Fall 2015

In this program, students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system and scripting that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems, Linux Network Operating Systems, Computer and Network Security, or Data Recovery.

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges.

Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Computer a	nd Network Security (CSEC)	(66 credits)
CST 118 CST 160 CST 165 CST 225 Elective	Microsoft Command Line Fundamentals Computer Technology I Computer Technology II PC Networking Speech Elective(s)	2 4 4 3 3
CIS 121 CNT 201 CNT 211 Elective Elective	Linux/UNIX I: Fundamentals Administering Microsoft Windows Client Operating Systems Installing and Configuring Windows Server 2012 Math Elective(s) Writing Elective(s)	4 3 4 3 3
CNT 206 CNT 216 CSS 200	Internetworking I - Fundamentals Internetworking II - Routers Introduction to Network Security Nat. Sci. Elective(s) Soc. Sci. Elective(s)	4 4 4 3 3
CIS 161 CSS 205 CSS 210 Elective	Introduction to PowerShell Essentials of Network Penetration Testing Basic Network Perimeter Protection Arts/Human. Elective(s)	4 4 4 3
Minimum Ci	redits Required for the Concentration or Option: 66	
Computer F	orensics (CSFC)	(65 credits)
JEWAST		

CST 118	Microsoft Command Line Fundamentals	2
CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech Elective(s)	3
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installing and Configuring Windows Server 2012	4

Page 2 of 4

Elective Elective	Math Elective(s) Writing Elective(s)	3
CNT 206	Internetworking I - Fundamentals	4
CNT 216	Internetworking II - Routers	4
CST 270	Data Recovery and Analysis	4
Elective	Soc. Sci. Elective(s)	3
CIS 161	Introduction to PowerShell	4
CST 275	Data Recovery and Forensics	4
CST 278 Elective	Computer Forensics for Mobile Devices	3
Elective	Arts/Human. Elective(s) Nat. Sci. Elective(s)	3
Minimum Cı	redits Required for the Concentration or Option: 65	
Linux Netwo	ork Operating System (LNOS)	(66 credits)
CST 118	Microsoft Command Line Fundamentals	2
CST 110	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech Elective(s)	3
CIS 121	Linux/UNIX I; Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installing and Configuring Windows Server 2012	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
CALCALINA CIS 206	Linux/UNIX II: Basic System Administration, Networking, and Security	4
CNT 206	Internetworking I - Fundamentals	4
CNT 216	Internetworking II - Routers	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
CIS 161	Introduction to PowerShell	4
CIS 221	Linux/UNIX Programming and Scripting I	4
CIS 208	Linux/UNIX III: Intermediate System Administration, Networking, and Security	4
Elective	Arts/Human. Elective(s)	3
Minimum Cr	redits Required for the Concentration or Option: 66	
Microsoft N	etwork Operating System (MNOS)	(66 credits)
CCT 110	Microsoft Command Line Fundamentals	2
CST 118 CST 160	Computer Technology I	4
CST 165	Computer Technology II	4
CST 225	PC Networking	3
Elective	Speech Elective(s)	3
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installing and Configuring Windows Server 2012	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3

CNT 206 CNT 216	Internetworking I - Fundamentals Internetworking II - Routers	4
BMG 205 or CST 270	Creating the Customer Experience Data Recovery and Analysis	4
Elective	Nat, Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
PARTIE AND	Total distance Description	
CIS 161 CNT 223	Introduction to PowerShell Administering Windows Server 2012	4
CNT 224	Configuring Advanced Windows Server 2012 Services	4
Elective	Arts/Human. Elective(s)	3
Minimum Cre	edits Required for the Concentration or Option: 66	
Local and Wi	de Area Networking (NETW)	(66 credits)
u asakan da		
CST 118 CST 160	Microsoft Command Line Fundamentals Computer Technology I	2 4
CST 165	Computer Technology I	4
CST 225	PC Networking	3
Elective	Speech Elective(s)	3
CIS 121 CNT 201	Linux/UNIX I: Fundamentals Administering Microsoft Windows Client Operating Systems	3
CNT 201	Installing and Configuring Windows Server 2012	4
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
CNT 206 CNT 216	Internetworking I - Fundamentals Internetworking II - Routers	4
BMG 205 or	Creating the Customer Experience	•
CST 270	Data Recovery and Analysis	4
Elective	Nat. Science Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
	AVERAGE AND	4
CIS 161 CNT 226	Introduction to PowerShell Internetworking III - Switches	4
CNT 236	Internetworking IV - WANs	4
Elective	Arts/Human. Elective(s)	3
Minimum Cre	dits Required for the Concentration or Option: 66	
Minimum Cre	edits Required for the Program:	65

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APCSN	Program Name:	Computer S and Networ	ys Zems	Ellective 1	term: F2015		
Division Code: BCT			Instruction				
Directions:					, •		
1. Attach the current progr	ram listing from the	WCC catalog or We	b site and indicate any ch	anges to be mad	le.		
2. Draw lines through any a separate sheet.	text that should be	deleted and write in a	dditions. Extensive narr	ative changes ca	n be included on		
Check the boxes below new courses as part of the should be submitted at the should be submitted.	ne proposed progra	m change, must be ap	proved separately using				
Requested Changes:			1 / A	1. 20.			
Program title (title was Description Type of award Advisors Articulation informatio	Review Remove course(s): Add course(s): Program admission requirements Continuing eligibility requirements Program outcomes Program outcomes Accreditation information Description include PM6205 er 051270 Type of award DETW concentration and plan that includes transition of students and timetable						
Show all changes on the attac							
Rationale for proposed of Students who CNT 211 are far in student success, CST 225 in the f	nore success we wish to a first semes	stul than the presenter. See re-	rogram course	list to in	10		
List departments that ha	ave been consulted	d regarding their us	e of this program.				
	only affe	cts Compa	Ter Networki	ng major	`5		
Signatures:		Print Name	Signatur		Date		
			Signatur				
Initiator		1 Trame	man	<u>e</u>	1/7/2015		
Department Chair	((2	(1	•	α ει		
Division Dean/Administra	tor	whi -	Kinberly Hurr	rs	413/15		
Vice President for Instructi	on	y 1/2 5			2/16/15		
President	Garage in Page 7/14	Alis West Darahasa 2/1	alis Log File Deleted D	and American	∪A -		
Do not write in shaded area.	Entered in: Danner 2/17	TIL COCA Database	B/19/15	wa whitewar	V4 53		

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

Change the Data Recovery Specialty To Dat Computer Forensics will more accurately describe the program.

The Computer Forensics option needs the addition of cst 278 to provide the proper level of skills for graduates of this program.

BMG 205 and CST 270 offer students additional options to gain complimentary skills (interpersonal/networking) that match offerings in the certificate program (per employers).

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Program Information Report

Computer Systems and Networking (APCSN) Associate in Applied Science Degree

Program Effective Term: Fall 2013

In this program students will learn about the latest desktop, server, and networking technologies. This program has a core of hardware, operating system and scripting that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems, Linux Network Operating Systems, Computer and Network Security, or Data Recovery.

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges.

Minimum Concentration Credits Required for the Program:

Select a concentration.

Computer Systems and Networking Concentrations

Computer and	Network Security (CSEC) (65	credits)
First Semester CST 118 CST 160 CST 165	Microsoft Command Line Fundamentals Computer Technology I Computer Technology II Math Elective(s) Speech Elective(s)	2 4 4 3 3
Second Semesi	ter	
CNT 201	Linux/UNIX I: Fundamentals Administering Microsoft Windows Client Operating Systems	3
CNT 211 CST 225	Installing and Configuring Windows Server 2012 PC Networking	4
C3 223	Writing Elective(s)	3
Third Semester CNT 206 CNT 216 CSS 200	Internetworking I - Fundamentals Internetworking II - Routers Computer Security II Nat. Sci. Elective(s) Soc. Sci. Elective(s)	4 4 4 3 3
Fourth Semest		gredita)
CIS 161 CSS 205	Introduction to PowerShell Computer Security III	4 4
CSS 210	Computer Security IV	4
	Arts/Human. Elective(s)	3

Minimum Credits Required for the Concentration or Option: 65

Data Recove	ery (DATR)	(61 credits)
First Semes CST 118 CST 160 CST 165	Microsoft Command Line Fundamentals Computer Technology I Computer Technology II Math Elective(s) Speech Elective(s)	2 4 4 3 3
Second Sem CIS 121 CNT 201 CNT 211	Linux/UNIX I: Fundamentals Administering Microsoft Windows Client Operating Systems Installing and Configuring Windows Server 2012	33 34

Wednesday, April 3, 2013 8:6:56 a.m.

Third Semester CNT 206 CNT 216	Internetworking I - Fundamentals Internetworking II - Routers Nat. Sci. Elective(s) Soc. Sci. Elective(s)	4 4 3 3
Fourth Semest CIS 161 CNT 223 CNT 224	Introduction to PowerShell Administering Windows Server 2012 Configuring Advanced Windows Server 2012 Services Arts/Human. Elective(s)	adits) 4 4 4 3
Minimum Credi	its Required for the Concentration or Option: 61	
Local and Wide	e Area Networking (NETW) (61 cre	edits)
First Semester CST 118 CST 160 CST 165	Microsoft Command Line Fundamentals Computer Technology I Computer Technology II Math Elective(s) Speech Elective(s)	adits) 2 4 4 3 3
Second Semest	ter Program information Report 2 1 2 10 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2	edits)
CIS 121 CNT 201 CNT 211 CST 225	Linux/UNIX I: Fundamentals Administering Microsoft Windows Client Operating Systems Installing and Configuring Windows Server 2012 PC Networking Writing Elective(s)	3 3 4 3 3
CNT 206 CNT 216	Internetworking I - Fundamentals Internetworking II - Routers Nat. Science Elective(s) Soc. Sci. Elective(s)	4 4 3 3
Fourth Semest	er	iilis)
CIS 161 CNT 226	Introduction to PowerShell Internetworking III - Switches	4 4
CNT 226	Internetworking IV - WANs	4
	Arts/Human. Elective(s)	3
Minimum Credi	its Required for the Concentration or Option: 61	
Minimum Cradi	its Required for the Program:	61

PROGRAM CHANGE OR DISCONT	<i>3</i> 45	stems and	
Program Code: APENTMProgram	n Name: Computer, Ne	Effective Effective	Term: F 2013
Division Code: Departr	nent: Computer Ins	Truction	
Directions:			
	= = = = = = = = = = = = = = = = = = =	o site and indicate any changes to be ma	
2. Draw lines through any text that s a separate sheet.	hould be deleted and write in a	dditions. Extensive narrative changes c	an be included on
	ed program change, must be ap	Changes to courses, discontinuing a co proved separately using a Master Syllab n.	
Requested Changes:	See	Attached	- ve- t
Review CST/74 XRemove course(s): CP5/120, CS Add course(s): CST/60, CST/6 XProgram title (title was Compute	57150, C57155, BMG205	Program admission requirements Continuing eligibility requirements	
Program title (title was Compute	r Networking)	Program outcomes Accreditation information	
Description	ر ک	Discontinuation (attach program di	scontinuation
Type of award		plan that includes transition of stud	
Advisors Articulation information		for phasing out courses) Other	
Show all changes on the attached page f	rom the catalog.		
Rationale for proposed changes of The new program will pretworking majors, with	provide Zuniform c	ore set of courses for in specific subsets of	zll nezworking.
Financial/staffing/equipment/sp	oace implications:		
List departments that have been o	consulted regarding their use	of this program.	
Signatures: Reviewer	Print Name	Signature	Date
		Signature San Dan - 0	2/14/2013
Initiator	John Trame	John Sie	
Department Chair	John Trame	Dilli	2/14/2013
Division Dean/Administrator	TOSEMARY WILSON	200 Land	2/25/13
Vice President for Instruction	William Abernethy	1 0 72	3/22/13
President Do not write in shaded area. Entered in: I	Sanner C&A Database 4/2	2/13 Log File 4/2/13 Board Approval	
	/ /	ssment and email an electronic copy to s	john@wccnet.edu

Office of Curriculum & Assessment

NET	rW		Mr	10S			LNOS		CS	SEC		DAT	-R	
	ystems Networking Wide Area Networking		Microsoft N Semester 1	letwork Operating System	1	Linux Netw Semester 1	ork Op System		Computer Semester 1	and Network Security		Data Recov	ery	
	Microsoft Command Line			Microsoft Command			Microsoft Command Line			Microsoft Command Line			Microsoft Command	
CST 118	Fundamentals	2	CST 118	Line Fundamentals	2	CST 118	Fundamentals	2	CST 118	Fundamentals	2	CST 118	Line Fundamentals	2
CST 160	Computer Technology I	4	CST 160	Computer Technology I	4	CST 160	Computer Technology 1	4	CST 160	Computer Technology I	4	CST 160	Computer Technology I	4
CST 165	Computer Technology II	4	CST 165	Computer Technology II	4	CST 165	Computer Technology II	4	CST 165	Computer Technology II	4	CST 165	Computer Technology	4
Elective	Mathmatics	3	Elective	Mathmatics	3	Elective	Mathmatics	3	Elective	Mathmatics	3	Elective	Mathmatics	3
Elective	Speech	3	Elective	Speech	3	Elective	Speech	3	Elective	Speech	3	Elective	Speech	3
		16			16			16			16			16
Semester 2			Semester 2			Semester 2			Semester 2			Semester 2		
				Linux/Unix 1:			Linux/Unix I:			Linux/Unix I:			Linux/Unix I:	
CIS 121	Linux/Unix I: Fundamentals	3	CIS 121	Fundamentals	3	CIS 121	Fundamentals	3	CIS 121	Fundamentals	3	CIS 121	Fundamentals	3
CST 225	PC Networking	3	CST 225	PC Networking	3	CST 225	PC Networking	3	CST 225	PC Networking	3	CST 225	PC Networking	3
				Administering Windows									Administering Windows	
	Administering Windows			Client Operating			Administering Windows			Administering Windows			Client Operating	
CNT 201	Client Operating Systems	3	CNT 201	Systems	3	CNT 201	Client Operating Systems	3	CNT 201	Client Operating Systems	3	CNT 201	Systems	3
				Installing and						Installing and			Installing and	
	Installing and Configuring			Configuring Windows			Installing and Configuring			Configuring Windows			Configuring Windows	
CNT 211	Windows Server 2012		CNT 211	Server 2012	4		Windows Server 2012			Server 2012		CNT 211	Server 2012	4
Elective	Writing		Elective	Writing	3	Elective	Writing	3	Elective	Writing		Elective	Writing	3
		16			16			16			16			16
Semester 3			Semester 3			Semester 3			Semester 3			Semester 3		
	Internetworking 1:			Internetworking I:			Internetworking I:			Internetworking I:			Internetworking I:	
CNT 206	Fundamentals	4	CNT 206	Fundamentals	4	CNT 206	Fundamentals	4	CNT 206	Fundamentals	4	CNT 206	Fundamentals	4
				Internetworking II:			Internetworking II:			Internetworking II:			Internetworking II:	
CNT 216	Internetworking II: Routers		CNT 216	Routers	4	CNT 216	Routers		CNT 216	Routers		CNT 216	Routers	4
Elective	Social Science		Elective	Social Science	3	Elective	Social Science	3	Elective	Social Science		Elective	Social Science	3
Elective	Natural Science	3	Elective	Natural Science	3	Elective	Natural Science Linus/UNIX II: Basic	5	Elective	Natural Science	3			
							System Administration,		000 ***				Data Recovery and	
						CIS 206	Networking and Sedurity		CSS 200	Computer Security II		CST 270	Analysis	4
		14			14			17			18			15
Semester 4			Semester 4			Semester 4			Semester 4			Semester 4		
			010.14	Introduction to		010.141	Landard B. C		CIC 141	Introduction to		OTO 144	Introduction to	
CIS 161	Introduction to PowerShell		CIS 161	PowerShell	4	CIS 161	Introduction to PowerShell		CIS 161	PowerShell		CIS 161	PowerShell	4
Elective	Arts and Humanities	3	Elective	Arts and Humanities	3	Elective	Arts and Humanities Linux/UNIX III: Intermediate System	3	Elective	Arts and Humanities	3	Elective	Arts and Humanities	3
	Internetworking III -			Administering Windows			Administratin, Networking						Data Recovery and	
CNT 226	Switches	Δ	CNT 223	Server 2012	4	CIS 208	and Security	3	CSS 205	Computer Security III	4	CST 275	Forensics	4
220	Statelles	7	0111 223	Configuring Advanced	7	0.0 200	Linux/UNIX Programming		200 200	compater occurry in	7	201 213	1 Orenaica	4
CNT 236	Internetworking IV - WANs	4	CNT 224	Windows Server 2012	4	CIS 221	and Scripting I	3	CSS 210	Computer Security IV	4	Elective	Natural Science	3
		15			15			13			15			14
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	Program Total	61		Program Total	61		Program Total	62		Program Total	65		Program Total	61

Virtualizatio	on .	
Semester 1		
\	Microsoft Command Line	
CS / (118	Fundamentals	2
CST\160	Computer Technology I	4
CST 165	Computer Technology II	4
Elective	Mathmatics	$\int_{-\infty}^{B}$
Elective \	Speech	\int_{-2}^{3}
\	/	16
Semester 2	\	
	\	
CIS 121	Linux/Unix I: Fundamentals	3
CST 225	PC Networking	3
	\/	
CD 177 6 0 4	Administering Windows Client	_
CNT 201	Operating Systems	3
	Installing and Configuration	
CNT 211	Installing and Configuring / Windows Server 2012	4
Elective	Writing Writing	3
Elective	writing \	16
	\	10
Semester 3		
CNT 206	Internetworking V: Fundamentals	4
CN1 200	miernetworking g. Fundamentals	+
CNT 216	Internetworking II Routers	4
Elective	Social Science	3
Elective	Natural Science	3
1	/ \	
1	/ \	
1		14
Semester 4		
	/	
CIS 161	Introduction to PowerShell	4
Elective	Arts and Humanities	3
	\	
	/	
	/	
/	/	
/		_
	\	7
	Program Total	\53
		7

Computer Systems and Networking

Associate of Applied Science Degree

Program Description

15 the asco

-cove

In this program students will learn about the latest desktop, server, and networking technologies. This program has a concentration of hardware, operating system and scripting that all students must complete. In addition to the common core subjects, students will select a specialized track in one of the following areas: Local and Wide Area Networking, Microsoft Network Operating Systems, Computer and Network Security, Data Recovery, or Virtualization.

Advisors

Michael Galea, Philip Geyer, James Lewis, William Reichert, John Trame

Requirements

First Semester			
		Credit	
Class	Title	Hours	
CST 118	Microsoft Command Line Fundamentals	2	
· CST 160	Computer Technology I	4	1 1 read
· CST 165	Computer Technology II	4	- don't need moved MTH here
Elective	Computer Literacy	3	moved min
Elective	Speech	3	110000
TOTAL		16	
Second Semester			
Class	Title	Credit Hours	
CIS 121	Linux/Unix I: Fundamentals	3	
CST 225	PC Networking	3	
CNT 201	Administering Windows Client Operating Systems	3	
CNT 211	Installing and Configuring Windows Server 2012	4	
Elective	Writing	3	
TOTAL		16	

New New Third and fourth semesters will vary, depending on the chosen specialty.

Third Semester			
Class	Title	Credit Hours	
CNT 206	Internetworking I: Fundamentals	4	All Students
CNT 216	Internetworking II: Routers	4	All Students
Elective	Math	3 - 4	All Students
Elective	Social and Behavioral Science	3	All Students
CIS 206	Linux/UNIX II: Basic System Administration, Networking, and Security	3	Linux Students only
CSS 200	Computer Security II	4	Security Students only
CST 270	Data Recovery and Analysis	4	Data Recovery Students only
TOTAL		14 - 19	1
Fourth Semester			
Class	Title	Credit Hours	
CIS 161	Introduction to PowerShell	4	All Students
Elective	Arts and Humanities	3	All Students
Elective	Natural Sciences	3 - 4	All Students
CNT 226	Internetworking III - Switches	4	Cisco Students only
CNT 236	Internetworking IV - WANs	4	Cisco Students only
CNT 223	Administering Windows Server 2012	4	Microsoft Students only
CNT 224	Configuring Advanced Windows Server 2012	4	Microsoft Students only
CIS 208	Linux/UNIX III: Intermediate System Administration, Networking, and Security	3	Linux Students only
CIS 221	Linux/Unix Programming and Scripting I	3	Linux Students only
CSS 205	Computer Security III	4	Security Students only *
CSS 210	Computer Security IV	4	Security Students only
CST 275	Data Recovery and Forensics	4	Data Recovery Students only
TOTAL		16 - 18	

New New

NEW

New New New New New

Computer Networking (APCNTM)

Associate in Applied Science Degree

2010 - 20112011 - 20122012 - 2013

Description

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Computer. Networking by completing the requirements listed.

Articulation

Davenport University, Bachelor degree; Eastern Michigan University, several BS degrees. Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site:

www.wccnet.edu/departments/curriculum/articulation.php?levelone =colleges.

Contact Information

Business/Computer Technologies

Computer Instruction Dept

Michael Galea, Philip Geyer, John Trame, William Reichert,
Requirements

James Lewis

Requirements

First Semester

Title Class

Elective(Computer and Information Literacy

s)

CIS 121 Linux/UNIX I: Fundamentals

-Introduction to Computer Science CPS 120

Microsoft Command Line Fundamentals CST 118

Total

Second Semester

Class Title Speech Elective(

s)

Elective(Writing

s)

Department of Multiple Advisors (Multiple Advisors)

Total Credits Required

61 - 68

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APCNTM

Program Name: Computer Networking

2012

Effective Term: Winter

Division Code: BCTD

Department: CIS

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:				
Review Remove course(s): ELE 174, ELE 299, CSS 270 Add course(s): BMG 205, CST 174, CST 270 Program title (title was) Description Type of award Advisors Articulation information Show all changes on the attached page from the catalog.	Program admission requirements Continuing eligibility requirements Program outcomes Accreditation information Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) Other			
Rationale for proposed changes or discontinuation: ELE 299 Customer Relations has been discontinued and replaced Experience. Co-op opportunities for this program are no longer more accurate course number than ELE 174 for Co-op. CSS 270 Data Recovery and Analysis.	being managed by the ELE Department, and CST 174 is a			
Financial/staffing/equipment/space implications:				
None.				
List departments that have been consulted regarding their us	e of this program.			

Reviewer	Print Name	Signature	Date
Initiator	John Trame	thistrame	11/17/2011
Department Chair	Clarence Hasselbach	Claren Hand On	11/17/1
Division Dean/Administrator	Rosemary Wilson	Terman a Jam	1/28/11
Vice President for Instruction	Stuart Blacklaw		12/9/11
President	Rose Bellanca		1//

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

logged 11/30/115/

Washtenaw Community College.

Certificates and Degrees.

http://www4.wccnet.edu/academicinfo/creditofferings/programs/degree.php?code=APCNTM

Return to web format »

Computer Networking (APCNTM)

Associate in Applied Science Degree

Program requirements shown below are for catalog year: 2011 - 2012 • Change Year

Description:

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Computer Networking by completing the requirements listed.

Contact Information:

Division: Business and Computer Technologies School: <u>School of Information Technology</u> Department: <u>Computer Instruction Dept</u>

Advisors: Michael Galea, Philip Geyer, Roland Meade, John Trame

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/departments/curriculum/articulation.php? levelone=colleges

	General Educa	ation Requirements	(21 - 24 Credits)	
	Writing	Elective(s)	3 - 4	
	Speech	Elective(s)	3	
	Math	Elective(s)	3 - 4	
	Nat. Sci.	Elective(s)	3 - 4	
	Soc. Sci.	Elective(s)	3	
	Arts/Hum.	Elective(s)	3	
	Computer Lit.	Elective(s)	3	
	Major/Area R	equirements	પુષ (40 - 💋 Credits)	
		Complete the Computer Systems Technology Certificate (17 credits).	0	
	CST 118	MS Command Line Fundamentals	2	
	CST 150	Computer Systems Technology I	5	
	CST 155	Computer Systems Technology II	5	
	CST 225	PC Networking	3	
ST174	CLE 174 or	Co-op Education I		
46205	ELE 299	Eustomer Relations CREATING THE CUSTOMER EXPERIENCE	1 - 🕏 🤄	4
(470)	Elective: 270	Complete the Computer Networking Academy I Advanced Certificate (16 credits). CNT 206, CNT 216, CNT 226 and CNT 236	0	
		or	. 0	
	Elective:	Complete the Computer Networking Operating Systems I Advanced Certificate (15 credits). CNT 201, CNT 211, CNT 223 and CNT 224	15 - 16	
	CIS 121	Linux/UNIX I: Fundamentals	3	

WCC Certificates and Degrees: Computer Networking Associate in Applied Science Deg... Page 2 of 2

CPS 120 Introduction to Computer Science

Complete an additional 3 credits to reach a minimum of 60 credit 3 Elective:

hours.

61 - **5** Credits **Minimum Credits Required for the Program:**

3

This website is for informational purposes only and is not to be construed as a binding offer or contract between WCC and the student. The information presented here is believed accurate, but is NOT guaranteed and is subject to change without notice.

For official information, see an Advisor.

Return to web format >

School of Information Technology

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer networking or programming in the growing field of applied information technology.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate and General Education requirements.

Networking

Develop and manage computer networks as a network administrator/engineer.

Computer Networking (APCNTM) Associate in Applied Science Degree

Program Effective Term: Fall 2012

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Computer Networking by completing the requirements listed.

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges.

Writing Speech Math Nat. Sci. Soc. Sci. Arts/Human. Computer Lit.	Elective(s) Elective(s) Elective(s) Elective(s) Elective(s) Elective(s) Elective(s) Elective(s)	3-4 3-4 3-4 3

CST 118 CST 150 CST 155 CST 225 BMG 205 or	Complete the Computer Systems Technology Certificate (17 credits). MS Command Line Fundamentals Computer Systems Technology I Computer Systems Technology II PC Networking Creating the Customer Experience	2 5 5 3
CST 174 or CST 270 Elective	CST Co-op I Data Recovery and Analysis Complete the Computer Networking Academy I Advanced Certificate (16 credits). CNT 206, CNT 216, CNT 226 and CNT 236 or	1-4
CIS 121 CPS 120 Elective	Complete the Computer Networking Operating Systems I Advanced Certificate (15 credits). CNT 201, CNT 211, CNT 223 and CNT 224 Linux/UNIX I: Fundamentals Introduction to Computer Science Complete an additional 3 credits to reach a minimum of 60 credit hours.	15-16 3 3 3

Minimum Credits Required for the Program:

PROGRAM CHANGE OR DISCONTINUATION FORM

Program (Code:
-----------	-------

Program Name: Computer Networking Associate In

Effective Term: W2012

APCNTM

Applied Science

Division Code: BCT

Department: Computer Instruction

L)iı	ec	tic	ns:	
			1		

- 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.

should be submitted at the same time as the program change for	orm.
Requested Changes:	
Review Remove course(s):ELE 299; reduce electives Add course(s):BMG 205 Program title (title was) Description Type of award Advisors Articulation information	Program admission requirements Continuing eligibility requirements Program outcomes Accreditation information Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) Other
Show all changes on the attached page from the catalog.	
Rationale for proposed changes or discontinuation: Change the ELE 299 Customer Relations requirement to BMG 2 students with a more rounded, generic business approach to the students.	
Financial/staffing/equipment/space implications: None	
List departments that have been consulted regarding their us. None. This only affects the Computer Systems Technology certific programs, which are both in our department.	

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	John Trame	solutione	3/30/2011
Department Chair	Clarere Hasselbach	Clam Hamilton	4/19/11
Division Dean/Administrator	Townery Wilson	Teneman Wilson	4/21/11
Vice President for Instruction	Sourt Blacklaw		7-14-11
President	,	Camero	

Do not write in shaded area. Entered in: Banner _____ C&A Database _____ | Log File // Board Approval

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.



School of Information Technology

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer networking or programming in the growing field of applied information technology.

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The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate and General Education requirements.

Networking

Develop and manage computer networks as a network administrator/engineer.

Computer Networking (APCNTM) Associate in Applied Science Degree Program Effective Term: Fall 2012

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Computer Networking by completing the requirements listed.

Articulation:

Davenport University, Bachelor degree;

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges.

General Educa	tion Requirements : 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1	. (21 credits)
Writing	Elective(s)	3-4
Speech	Elective(s)	3
Math	Elective(s)	3-4
Nat. Sci.	Elective(s)	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
Computer Lit.	Elective(s)	3
major/Area Ke	quirements	SERVED TO SERVED
	Complete the Computer Systems Technology Certificate (17 credits).	2
CST 118	MS Command Line Fundamentals	2
CST 150	Computer Systems Technology I	5
CST 155	Computer Systems Technology II	5
CST 225	PC Networking	3
ELE 174 or	ELE Co-op Education I	
BMG 205	Creating the Customer Experience	1-3
Elective	Complete the Computer Networking Academy I Advanced Certificate (16 credits).	
	CNT 206, CNT 216, CNT 226 and CNT 236	
	or	45.46
Elective	Complete the Computer Networking Operating Systems I Advanced Certificate (15 credits). CNT 201, CNT 211, CNT 223 and CNT 224	15-16
CIS 121	Linux/UNIX I: Fundamentals	2
	·	3
CPS 120	Introduction to Computer Science	3
Elective	Complete an additional 3 credits to reach a minimum of 60 credit hours.	3

Minimum Credits Required for the Program:

PROGRAM CHANGE FORM

Program Code:	Program Name:		Effective Term:
<u>APCNTM</u>	Computer Networking		200409
Directions:			
1. Attach the current progra	m listing from the WCC catalog and	l indicate any changes to be made.	
2. Draw lines through any to a separate sheet.	ext that should be deleted and write	in additions. Extensive narrative chang	ges can be included on
		ed. Changes to courses, discontinuing e approved separately using a Course S	
	e same time as the program change		syllabus Porm, but
Requested Changes:			
Title (title was Description		Advisors Articulation information Program admission recursion Continuing eligibility recursion Program outcomes Other	quirements
Show all changes on the attach	ed page from the catalog.		
Certificate in Computer Systourses CIS 121 and CPS 1	ogram description for the Compute stems Technology. The Computer S	r Networking Degree requires success. Systems Technology program is being age add CIS 121 and CPS 120 to the proold for an AAS degree).	changed to delete
Financial/staffing/equipe No impact	ment/space implications:		
List departments that hav ELE	e been consulted regarding the u	se of this program.	
Signatures:			
Reviewer	Print Name	Signature	Date
Program Change Initiator	Philip Geyer	Muly 7 dyn	3-26-04 RH 3-26-04 4.10
Department Chair	Philip Geyer	Muly 7 Agy	3-26-04 4.10
Division Dean/Administrator	Rosemary Wilson	Tegeman & Day	~ 3-39-04
Vice President for Instruction	Roger Palay	Moor Ma Jaka	4/5/09
Please submit completed	form to the Office of Curriculum	and Articulation Services.	' '/ /
Office of Curriculum & Articulation	n Services	Program Cl	nange Form 8-2003
Access Program File 11/16	Log 4/16	Copied and Returned	<u>U 6 2034</u>

Computer Networking (APCNTM) Associate in Applied Science Degree

Program Effective Term: Fall 2004

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. Students can earn an Associate in Applied Science Degree in Computer Networking by completing the requirements listed below.

Continuing Eligibility Requirements:Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

General E	ducation Requirements	(18 credits)
Writing	Elective(s)	3-4
Speech	Elective(s)	3
Math	Elective(s)	3-4
Nat. Sci.	Elective(s)	3-4
Soc. Sci.	Elective(s)	3
Arts/Human.	Elective(s)	3
Major/Are	a Requirements	(42 credits)
•	Complete the Computer Systems Technology Certificate (17 credits).	
CST 118	MC Command Line Fundamentals	2
CST 150	Computer Systems Technology I	5
CST 155	Computer Systems Technology II	5
CST 225	Computer Systems Technology III	3
	Complete ELE 174 ELE Co-op Education I or ELE 299 Customer Relations	2
	Complete the Computer Networking Academy I Advanced Certificate (16 credits).	
	CNT 206, CNT 216, CNT 226, and CNT 236	
	or	
	Complete the Computer Networking Operating Systems I Advanced Certificate (14 credits). CNT 201, CNT 211, CNT 221, and CNT 224	14-16
CIS 121	Linux/UNIX Fundamentals	3
CPS 120	Intro to Computer Science	3
	Complete 1-5 additional credits to bring the total to credits	o 60 5

Washtenaw Community College Program Change Request Form

Program Code: APCNTM	Program Name: Associate Degree - 0		Effective Term: Fall 2002				
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:							
Course Sequence Name (new name Description		☐Continuing Eligi ☐Footnotes ☐Other Add in M	eements ion Requirements/Procedures bility Requirements icrosoft Certificate as an CO Certificate to obtain this				
Show all changes on the attack	ned program sheet.	Associate Degree.					
Networking I (APCNTM), way to achieve this degree two alternatives correctly, request that the new catalo Note: The changes as prop Microsoft Program planne existing Microsoft Program	Thanges: On page 98, in the description of the option for the Computer Networking was inadvertantly left off. The diagrams with a path shown for either certificate. To be updated with this correction. So osed on the attached page and on the sheet to go into effect this fall. These changes in into two certificates (similar to CISCO). This meant that the "additional credit hours" to "1 to 3 credit hours" depending on w	Systems (CVCNOS) shown on page 96 of the cataloghis Program Change Request For attached showing the diagram s, (forms which have been submars) The first certificate, which is pars, portion of the total hours (to	or (see attached) does show the Form is being submitted to an, reflect program changes to nitted previously), split the part of the Associate Degree, be bring the total to 60) had to be				
changed from "1 credit hour" to "1 to 3 credit hours" depending on whether the CISCO or Microsoft Program is chosen. 3. Financial/Staffing/Equipment/Space Implications: NOT APPLICABLE							
J. Fillancian Stating, 254			·				
	ulted with all departments that may be	impacted? Yes 🛛 No	o				
	d CIS Department faculty	Impacted: 100 Z					
Signatures:			Data				
Reviewer	Print Name	Signature	Date				
Program Change Initiator:	Umreichent	Medical	01/25/02				
Department Chair:	GARY DOWNEN	Lay W. Vo	will 2/12/02				
Division Dean:	Tryange Kilson	Harring 12	Slegg 7/15/02				
VP, Instruction/Student Serv	ices:	Turgol	(tu 31)				
Curriculum and Articulation Service	none chan, a can,	Copied and Returned New Listing to: Counseling; Admissio	Processed				

Office of Curriculum & Adjudation Services

Computer Studies

Computer Networking (APCNTM) Associate in Applied Science Degree

Program Effective Term: Fall 2002

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an Associate in Applied Science Degree in Computer Networking by completing the requirements listed below.

Business and Computer Technologies Division Computer Instruction Department and Electronics Department

Advisors: Michael Galea, Phil Geyer, Roland Meade, John Rinn, John Trame

Continuing Eligibility Criteria:
Students must demonstrate basic computer literacy skills by successfully passing the Computer and Information Literacy Test. The test may be taken at any point during the program, but must be completed before graduating.

Requirements

•	••••		
1.	Complete the Certificate in Computer Systems Technology (CTCSTC)	25	
2.	Complete the Advanced Certificate in Computer Networking Academy I (CVCNT) or Complete the Advanced Certificate in Computer Networking Operating Systems I (CVCNOS)	14-16	
3.	Complete General Education Requirements for the AAS Degree	18-21	
4.	Complete 1-3 additional credits to bring the total to 60 credits	3	
	Outlie Demained for the Brograms		

Minimum Credits Required for the Program:

Washtenaw Community College Program Change Request Form

Program Code: APCNTM

Program Name: Computer Networking

Effective Term: Fall 2001

submitted for this year. Please revi	ew the program sheet carefully hould be removed and write in the boxes below for each type	ould reflect any <u>approved</u> changes that and indicate any changes that you wo any additions. Extensive narrative ch of change being proposed. If courses a Syllabus Approval Form (CSAF).	anges may be	
1. Requested Changes:				
Remove Course(s) Add Course(s) Increase/Decrease Credits Course Sequence Name (new name Major/Program Code (new code _ Description	Advisors Articulation Agreements Program Admission Requirements/Procedures Continuing Eligibility Requirements Footnotes Other			
Show all changes on the attached pro-	gram sheet if possible.			
Rationale for Proposed Changes Kiffeds changes 3. Financial/Staffing/Equipmen	in the adv. Con	tificate (CNT)		
		impacted? Yes \(\square\) No \(\square\)	NA 🗌	
4. Has the department consulted v	vith all departments that may be	impacted? Yes No No	ии П	
Comments:				
Signatures:	Print Name	Signature	Date	
Reviewer		- Digitalian Control	3/6/2001	
Program Change Initiator:	John Trame	Jonns Lynn	96120-1	
Department Chair:		D 10 #	3/1/01	
Division Dean:	<i>\</i>	Trough Durging	16/0/	
VP, Instruction/Student Services:		My Clitte		
Access Program File 3 30/0)/ Log <u>3 3 70 </u> J2 ir. Dean, Curriculum File	Copied and Returned	-	

Computer Networking (APCNTM) Associate in Applied Science Degree

Program Effective Term: Fall 2001

Some employers require or prefer employees to have an associate degree as a condition for employment or for advancement. You can earn an AAS in Computer Networking by completing the requirements listed below.

Business Division

Computer Instruction and Electronics Department

Advisors: Gary Downen, Michael Galea, Phil Geyer, Roland Meade, John Rinn, John Trame

Requirements

1.	Complete the Certificate in Computer Systems Technology (CTCSTC)	25
2.	Complete the Advanced Certificate in Computer Networking Academy I (CVCNT)	16
3.	Complete General Education Requirements for the AAS Degree	18-21
4.	Complete one additional credit to bring the total to 60 credits	1
	and the Breamann	60

Minimum Credits Required for the Program: