

NETWORK ADMINISTRATION AND SUPPORT

Program code: T.CNA.AAS

Associate in Applied Science (A.A.S.)

Minimum graduation requirement — 65 semester hours

The Computer Network System Administrator program prepares students to manage and administer the computer networks of small to medium-sized enterprises. Students will learn to use a variety of operating systems: use, install, and maintain networks; program routers and switches; develop networking software and develop and study documentation used to manage a network. Students will receive extensive hands-on experience. This can transfer to EIU, SIU, and UIS as a 2+2 program.

Program Note*

- Students planning to transfer to a 4-year institution should take COM 103; those planning to enter the workforce upon graduation should take COM 120.

Suggested Full-time Sequence

FALL	SPRING
1st Semester	2nd Semester
CIS 112	CSC 115
CSC 128	CSC 116
CSC 130	CSC 151
CSC 133	MAT 108
ENG 101	Soc/Beh Sci or Hum/FA elec

FALL	SPRING	SUMMER
3rd Semester	4th Semester	
CSC 150	CSC 159	CIS 298
CSC 153	CSC 251	
CSC 171	CSC 271	
Elective	Elective	
COM 103 or COM 120	Soc/Beh Sci or Hum/FA elec	

Required Courses (44 hours)

Cr. Hrs.

CIS 112	Computing Essentials	4
CIS 298	Work Experience	3
CSC 115	Networking I, Routers and Switches	3
CSC 116	Networking II, WAN Connectivity	3
CSC 128	Introduction to Linux	3
CSC 130	Introduction to Computer Networks	3
CSC 133	PC Hardware and OS Maintenance	4
CSC 150	Wireless Networking and Emerging Technologies	3
CSC 151	MS OS Workstation	3
CSC 153	MS OS Server	3
CSC 159	Network Administration	3
CSC 171	Linux Installation and Administration	3
CSC 251	Data Security and Recovery	3
CSC 271	Linux Administration II	3

Required General Education Courses (15 hours)

COM 103*	Introduction to Public Speaking	3
or COM 120	Interpersonal Communications*	
ENG 101	Composition I	3
MAT 108	Introduction to Applied Statistics	3
	Social/Behavioral Sciences electives or HUM/FA electives	6

Electives (Choose 6 hours)

CIS 134	Spreadsheet Applications (MS Excel)	3
CIS 138	Database Applications	3
CSC 140	Computer Science I (Java)	3
CSC 155	Systems Development I	3

Total Semester Credit Hours

65

Required Courses for Students

Transferring to UIS

CSC 140	Computer Science I (Java)	3
CSC 256	Computer Science II (Java)	3
	(replaces one elective)	
MAT 128	Calculus and Analytic Geometry I	5
	(replaces CIS 298)	

Required Courses for Students

Transferring to SIU

CSC 140	Computer Science I (Java)	3
CIS 138	Database Applications (MS Access)	3
	(replaces one elective)	
CIS 231	Systems Analysis, Design, and Administration	3
	(replaces CIS 298)	

NETWORKING CERTIFICATES

COMPUTER FOUNDATIONS

Program Code: T.PCF.CER

Certificate

Minimum graduation requirement — 17 semester hours

This certificate covers the basics of Windows and Linux operating systems, PC repair, and basic networking. Upon completion, students are prepared for entry-level PC support positions.

Suggested Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
CSC 112	CSC 130
CSC 133	CSC 128
	elective

Required Program Courses (14 hours) Cr. Hrs.

CIS 112	Computing Essentials	4
CSC 128	Introduction to Linux	3
CSC 130	Introduction to Computer Networks	3
CSC 133	PC Hardware and OS Maintenance	4

Elective Course (3 hours)

Choose from the following:

CIS 152	Web Design and Development I	3
CIS 134	Spreadsheet Applications (MS Excel)	3
CIS 138	Database Applications (MS Access)	3

Total Semester Credit Hours 17

LINUX ADMINISTRATION

Program Code: T.LIN.CER

Certificate

Minimum graduation requirement — 9 semester hours

This certificate prepares students with advanced skills for working with Linux operating systems. Topics include troubleshooting and configuration.

Suggested Sequence

<i>SUMMER</i>	<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>	<i>3rd Semester</i>
CSC 128	CSC 171	CSC 271

Required Program Courses (9 hours) Cr. Hrs.

CSC 128	Introduction to Linux	3
CSC 171	Linux Installation and Administration	3
CSC 271	Linux Administration II	3

Total Semester Credit Hours 9

MICROSOFT ADMINISTRATION

Program code: T.MSA.CER

Certificate

Minimum graduation requirement — 10 semester hours

This certificate gives students advanced skills for working with Windows Operating Systems (workstation and server) troubleshooting, configuration, and design.

Suggested Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
CSC 133	CSC 153
CSC 151	

Required Program Courses (10 hours) Cr. Hrs.

CSC 133	PC Hardware and OS Maintenance	4
CSC 151	MS OS Workstation	3
CSC 153	MS OS Server	3

Total Semester Credit Hours 10

CISCO NETWORKING

Program Code: T.CIS.CER

Certificate

Minimum graduation requirement — 15 semester hours

This certificate program prepares students with advanced skills for working with computer networks, Cisco routers, and switches. Wired and wireless networks are covered for troubleshooting, configuration, design, and repair.

Program Note*

CSC 115 and CSC 116 are eight-week classes; CSC 115 is taught during the first half of the semester and CSC 116 follows during the second half.

Suggested Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
CSC 130	CSC 115*
	CSC 116
	CSC 150
	CSC 251

Alternate Suggested Sequence

<i>FALL</i>	<i>SPRING</i>	<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>	<i>3rd Semester</i>	<i>4th Semester</i>
CSC 130	CSC 115*	CSC 150	CSC 251
	CSC 116		

Required Program Courses (15 hours) Cr. Hrs.

CSC 115	Advanced Networking I	3
CSC 116	Advanced Networking II	3
CSC 130	Introduction to Computer Networks	3
CSC 150	Wireless Networking and Emerging Technologies	3
CSC 251	Advanced Topics in Computer Security	3

Total Semester Credit Hours 15