

## Network Administration (CNA Track)

### The Program

The Network Administration option provides the concepts and skills needed to design, install, maintain, and expand networked and telecommunication systems. The curriculum provides specific training in Cisco network systems. Upon completion of the option, the graduate will be qualified to take industry designed and recognized exams. Employment opportunities include entry-level positions in installation and administration of local and wide area networks in medium to large businesses and organizations and computer network administration positions in small businesses. This curriculum is supported by a solid foundation of core courses that focus on problem solving and communication skills for information technology professionals.

Students entering this program must have basic computer skills like those obtained in CIS 100 – Introduction to Computers.

#### General Education Core:

ENG 101 Writing I  
ENG 102 Writing II  
MT 150 College Algebra & Functions  
Science Course w/Lab  
Oral Communications Course  
Social Interaction Course  
Heritage/Humanities Course

#### Technical Core:

CIS 120 Program Design & Development  
CIS 130 Microcomputer Applications  
IT 105 Computer Maintenance Essentials **AND**  
IT 205 Advanced Computer Maintenance **OR**  
ET 232 Computer Software Maintenance **AND**  
ET 234 Computer Hardware Maintenance  
IT 170 Introduction to Database Design  
IT 132 Web Page Development **OR**  
IT 130 Web Site Design & Production  
Introductory Networking Course  
Beginning Level Programming Language

#### Network Administration Option/CNA Track:

IT 122 Routing Protocols & Concepts **OR**  
IT 123 Small to Medium Business or ISP Networking  
IT 220 LAN Switching & Wireless **AND**  
IT 222 Accessing the WAN

#### **OR**

IT 223 Introducing Routing and Switching in the Enterprise **AND**  
IT 225 Designing & Supporting Computer Networks  
NIS 213 Administering Microsoft Windows Server Topic **OR**  
NIS 230 UNIX Administration  
Technical Electives





## Associate in Applied Science Network Administration (CNA Track) Information Technology Program

### Program Coordinator

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## How to Reach Us

**Somerset Community College**  
www.somerset.kctcs.edu

**1-877-629-9722**

Somerset Campus  
(606) 679-8501

Laurel Campus  
(606) 877-1421

Casey Center  
(606) 787-4727

Clinton Center  
(606) 387-3236

McCreary Center  
(606) 376-5747

Russell Center  
(270) 866-2125

<b>FIRST SEMESTER:</b>			<b>CREDIT HOURS</b>
ENG 101	Writing I		3
MT 150	College Algebra & Functions		3
CIS 120	Program Design and Development		3
CIS 130	Microcomputer Applications		3
ET 232	Computer Software Maintenance <b>OR</b> <i>Must also take ET234</i>		3
IT 105	Computer Maintenance Essentials <i>Must also take IT205</i>		(3)
IT 132	Web Page Development <b>OR</b>		3
IT 130	Web Site Design & Production		(4)
<b>Total Semester Credits</b>			<b>18-19</b>

<b>SECOND SEMESTER:</b>			
ENG 102	Writing II		3
	Oral Communications Course (see catalog)		3
ET 234	Computer Hardware Maintenance <b>OR</b> <i>Must also take ET232</i>		3
IT 205	Advanced Computer Maintenance <i>Must also take IT105</i>		(3)
IT 170	Introduction to Database Design		3
	Beginning Level Programming Class (see catalog) <i>Recommend CIS149</i>		3
	Introductory Networking Course (see catalog)		3-4
<b>Total Semester Credits</b>			<b>18-19</b>

<b>THIRD SEMESTER:</b>			
	Science Course with Lab (see catalog)		3-4
	Social Interaction Course (see catalog)		3
	Heritage/Humanities Course (see catalog)		3
IT 122	Routing Protocols and Concepts <b>OR</b> <i>Must also take IT120</i>		4
IT 123	Small to Medium Business or ISP Networking <i>Must also take IT121</i>		(4)
NIS 213	Administering Microsoft Windows Server: Topic		3
NIS 230	Unix Administration		(3)
<b>Total Semester Credits</b>			<b>16-17</b>

<b>FOURTH SEMESTER:</b>			
IT 220	LAN Switching & Wireless <b>AND</b>		4
IT 222	Accessing the WAN <b>OR</b>		4
IT 223	Introducing Routing & Switching in the Enterprise <b>AND</b>		(4)
IT 225	Designing & Supporting Computer Networks		(4)
	Technical Elective (see catalog)		6
<b>Total Semester Credits</b>			<b>14</b>
<b>Total Program Credits</b>			<b>66-69</b>

**Special Notes:** This schedule is only a suggested course schedule. The number of semesters required to complete the degree will vary among students. Most program option courses are delivered online via KYVC.

**Note: Credential requirements for this program are subject to change.  
Students should verify course requirements with their advisor.**

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