

# CISCO NETWORKING AND SECURITY TECHNOLOGIES - ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Explore More About This Program: <https://cwi.edu/program/cisco-networking-and-security-technologies>

## Degree Quick Facts

- **Instructional School:** Science, Technology, and Math
- **Department:** Computer Science and Information Technology
- **Program Code:** CNST.AAS
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the [Special Course Fees](#) web page.

## Degree Requirements

Course	Course Title	Min Credits
<b>General Education Requirements</b>		
<a href="#">GEM 1 - Written Communication course</a>		3
<a href="#">GEM 2 - Oral Communication course</a>		3
<a href="#">GEM 3 - Mathematical Ways of Knowing course</a>		3
<a href="#">GEM 6 - Social &amp; Behavioral Ways of Knowing course</a>		3
<a href="#">GE Elective course</a>		3
<b>Major Requirements</b>		
CNST 124	IT Essentials	6
CNST 127	Introduction to Networks	6
CNST 129	Switching, Routing, and Wireless Essentials	6
CNST 135	Enterprise Networking, Security, and Automation	6
CNST 230	Linux Essentials	4
CNST 238	Cisco Certified Network Associate (CCNA) Cyber Ops	4
CNST 240	Virtualization Technologies	4
CNST 242	Cisco DevNet Associate	4
CNST 244	Linux Advanced	4
CNST 249	Command Line and Scripting Fundamentals	4
<b>Minimum Credit Hours Required</b>		<b>63</b>

## Degree Plan: Fall Start

*The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this course sequence plan. Please register for your major requirements each semester as shown below using the Student Planning tool in myCWI. Consult your advisor for any questions regarding this plan.*

*NOTE: The required general education courses may be completed during any semester the student prefers, including summer semesters.*

### First Year

Fall	Credit Hours
CNST 124 IT Essentials	6
CNST 127 Introduction to Networks	6
<a href="#">GEM 1 - Written Communication course</a>	3
<b>Total Semester Credit Hours</b>	<b>15</b>
Spring	
CNST 129 Switching, Routing, and Wireless Essentials	6

CNST 135 Enterprise Networking, Security, and Automation	6
<a href="#">GEM 3 - Mathematical Ways of Knowing course</a>	3
<b>Total Semester Credit Hours</b>	<b>15</b>
Second Year	
Fall	
CNST 230 Linux Essentials	4
CNST 238 Cisco Certified Network Associate (CCNA) Cyber Ops	4
CNST 240 Virtualization Technologies	4
<a href="#">GEM 6 - Social &amp; Behavioral Ways of Knowing course</a>	3
<b>Total Semester Credit Hours</b>	<b>15</b>
Spring	
CNST 242 Cisco DevNet Associate	4
CNST 244 Linux Advanced	4
CNST 249 Command Line and Scripting Fundamentals	4
<a href="#">GEM 2 - Oral Communication course</a>	3

GE Elective course	3
<b>Total Semester Credit Hours</b>	<b>18</b>
<b>Minimum Credit Hours Required</b>	<b>63</b>

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Use network protocol models to explain the layers of communication in data networks for use in network design and troubleshooting.
- Demonstrate an understanding of switching concepts and LAN design to include the use of Virtual LANs with LAN trunking configured by the Spanning Tree Protocol.
- Install, configure and verify switches for network operation.
- Demonstrate an understanding of routing fundamentals, subnets, and IP addressing schemes.
- Configure and verify routers for network operation.
- Design, plan, implement, operate, and troubleshoot wired and wireless networks.
- Exhibit competencies of Written Communication (GEM 1), Oral Communication (GEM 2), Mathematical Ways of Knowing (GEM 3), Social and Behavioral Ways of Knowing (GEM 6), and other approved three-credit general education course.