

# CLOUD, SECURITY, AND SYSTEM ADMINISTRATION - BASIC TECHNICAL CERTIFICATE (BTC)

Explore More About This Program: <https://cwi.edu/program/cloud-security-and-system-administration>

## Certificate Quick Facts

- **Instructional School:** Science, Technology, and Math
- **Department:** Information Technology
- **Program Code:** CSSA.BTC
- **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.

## Certificate Requirements

Course	Course Title	Min Credits
<b>Major Requirements</b>		
CSSA 141	Fundamentals of Windows Operating System	3
CSSA 143	Network Services	3
CSSA 145	Network Design and Security	3
CSSA 147	Network Fundamentals and Certification	3
CSSA 150	Server Administration	6
CSSA 160	Security	6
<b>Minimum Credit Hours Required</b>		<b>24</b>

## Certificate Plan

*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 each semester as shown using the Student Planning tool in myCWI. Consult your advisor for any questions regarding this course sequence plan.*

### First Year

Fall		Credit Hours
CSSA 141	Fundamentals of Windows Operating System	3
CSSA 143	Network Services	3
CSSA 145	Network Design and Security	3
CSSA 147	Network Fundamentals and Certification	3
<b>Total Semester Credit Hours</b>		<b>12</b>

### Spring

CSSA 150	Server Administration	6
CSSA 160	Security	6
<b>Total Semester Credit Hours</b>		<b>12</b>
<b>Minimum Credit Hours Required</b>		<b>24</b>

## Program Learning Outcomes

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

- Install and configure Windows client, Windows Server, and Linux systems; manage permissions, storage, security, and network services across on-premises and cloud environments.
- Design, document, and implement network addressing schemes using CIDR; configure routing and switching; analyze and troubleshoot network traffic and connectivity.
- Implement secure network environments by identifying security risks, applying cryptographic controls, and configuring firewall systems.