# NETWORK SYSTEMS TECHNOLOGY, ASSOCIATE OF SCIENCE - CLOUD ARCHITECTING

**Program Code:** 2503C
**Career Pathway:** Science, Technology, Engineering, and Math

**Location(s):** Courses for this program are offered at all BC locations. (https://www.broward.edu/about/locations/) This program is also offered fully online.
**Program Entrance Requirements:** HS Diploma or GED

**Program Description:** The Network Systems Technology – Network Administration Associate in Science degree, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as network administrators. It is designed for students seeking the skills set needed to be successful in their careers as Microsoft Network Administrators or Cisco Certified Networking Professionals.

1. Information Technology Support Specialist, Technical Certificate 6337
2. Information Technology Analyst, Technical Certificate 6338
3. Cloud Engineering, Technical Certificate 6380
4. Network Systems Technology, Associate of Science - Cloud Architecting 2503C
5. Applied Bachelor of Science

| Course | Title | Credits | 6380 | 6338 | 6337 |
|---|---|---|---|---|---|
| Course ENC1101 | Title COMPOSITION I | Credits 3 | 6380 | 6338 | 6337 |
| Course CGS1060C | Title COMPUTER AND INTERNET LITERACY | Credits 3 | 6380 | 6338 X | 6337 X |
| Course GE Course | Title General Education Speech | Credits 3 | 6380 | 6338 | 6337 |
| Course CTS1133C | Title A+ COMPREHENSIVE | Credits 4 | 6380 | 6338 | 6337 |
| Course CTS1134C | Title NETWORK+ | Credits 4 | 6380 X | 6338 X | 6337 |
| Course GE Course | Title General Education Mathematics Core | Credits 3 | 6380 | 6338 | 6337 |
| Course CIS1513C | Title PROJECT MANAGEMENT | Credits 4 | 6380 | 6338 X | 6337 |
| Course CTS1111C | Title LINUX + | Credits 4 | 6380 | 6338 | 6337 |
| Course COP1700C | Title INTRODUCTION TO DATABASE AND MYSQL | Credits 3 | 6380 | 6338 | 6337 |
| Course GE Course | Title General Education Humanities Core | Credits 3 | 6380 | 6338 | 6337 |
| Course CTS1146C | Title CLOUD COMPUTING PRACTITIONER | Credits 4 | 6380 X | 6338 | 6337 |
| Course CTS2375C | Title CLOUD+ | Credits 3 | 6380 X | 6338 | 6337 |
| Course CTS2380C | Title CLOUD ARCHITECTING I | Credits 3 | 6380 X | 6338 | 6337 |
| Course GE Course | Title General Education Natural Science Core | Credits 3 | 6380 | 6338 | 6337 |
| Course CTS2881C | Title CLOUD ARCHITECTING II | Credits 4 | 6380 X | 6338 | 6337 |

| Course | Title | Credits | 6380 | 6338 | 6337 |
|---|---|---|---|---|---|
| Course AMH2010 or AMH2020 or POS2041 | Title HISTORY OF THE UNITED STATES TO 1877 or HISTORY OF THE UNITED STATES SINCE 1877 or NATIONAL GOVERNMENT | Credits 3 | 6380 | 6338 | 6337 |
| Course Elective | Title Math or Internship or IT Elective[1] | Credits 3 | 6380 | 6338 | 6337 |
| Course COP1000C | Title INTRODUCTION TO COMPUTER PROGRAMMING | Credits 3 | 6380 X | 6338 X | 6337 |
| Total Credits | | 60 | 6380 24 | 6338 27 | 6337 18 |

[1]    Students may choose from courses beginning with CET, CIS, COP, CTS, CGS, or ISM.

**Notes:**

Students should complete all Core Computing Requirements before completing specialization courses.

Students may choose from the program electives beginning with CET, CIS, COP, CTS, CGS, or ISM.

In addition to the courses marked, students must also complete additional credits, as applicable, to earn the corresponding Technical Certificate(s) as indicated above, to achieve the **Total Credits**.

Students who took MAC1105C should choose one 4-credit course and one 3-credit course from the Program Elective list below. Students who did not take MAC1105C should choose three 3-credit courses from the Program Elective list below.

See General Education course information here (https://catalog.broward.edu/programs-study/aa-general-education-graduation-requirements/).

Students must satisfy the Digital Literacy requirement by testing out, completing a Credit for Prior Learning portfolio, or passing CGS1060C COMPUTER AND INTERNET LITERACY.

In accordance with Florida Statute and Florida Administrative Code, students may need to satisfy the Civic Literacy Graduation Requirement. Visit the Civic Literacy Graduation Requirement page at broward.edu/civic-literacy (https://students.broward.edu/resources/civic-literacy/).

**Students are strongly encouraged to meet with an advisor (https://students.broward.edu/resources/advising/) to create a personalized educational plan.**

# PROGRAM HIGHLIGHTS

## CREDIT FOR PRIOR LEARNING

Accelerate your path to completion with these options:

- Credit by exam
- Earned industry certifications
- Prior Learning Assessment
- And much more…

## RELATED INDUSTRY CERTIFICATIONS

Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses:

CompTIA A+ | Network+ | Security+ | CCNA | AWS Cloud Practitioner | AWS Cloud Solutions Architect | Project+ | SSCP

## GET AN INTERNSHIP

After completing your first year of coursework make sure to visit Employment Solutions (https://broward.edu/career/) for internship opportunities and helpful tools like virtual job shadow, to help take your career to the next level!

- Get an Internship (http://broward.edu/studentresources/career/Pages/Find-a-job-or-internship.aspx)
- Virtual Job Shadow Tool (http://www.broward.edu/studentresources/career/Pages/default.aspx)

**MEDIAN WAGE AND JOB GROWTH OUTLOOK**

Broward College has Career Coach (https://www.broward.edu/careercoach/)! It is designed to help you find a good career by providing the most current local data on wages, employment, job postings, and associated education and training.

**FUND YOUR EDUCATION**

This program is Financial Aid (https://www.broward.edu/admissions/financial-aid/) eligible. Scholarships (https://www.broward.edu/admissions/financial-aid/scholarships/) may be available.

# Program Learning Outcomes

Graduates from this program will:

- Graduates will implement VLANs and trunking in a switched network.
- Students will install and configure DNS servers.
- Students will configure and manage LAN-based security.
- Graduates will summarize the properties of a project and classify project roles and responsibilities.
- Students will be able to troubleshoot computer hardware issues, software issues, network issues, and be able to communicate well with clients, coworkers, and document their work.
- Graduates will be able to configure IPv4 and IPv6 addressing. May include, but is not limited to, configuring IP options, subnetting, VLSM, and alternative configurations.
- Graduates will be able to read a routing table.
- Cloud Architecture and Design: Graduates will be able to compare and contrast the different types of cloud models, explain the factors that contribute to capacity planning, explain the importance of high availability and scaling in cloud environments, and analyze the solution design in support of the business requirements.

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