

NETWORK AND SYSTEM ADMINISTRATION: CLOUD COMPUTING - SPECIALIZED CERTIFICATE (SC)*

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

Certificate Quick Facts

- **Instructional School:** Communication and Information Technologies
- **Department:** Computer Science and Information Technology
- **Program Code:** NADM-CC.SC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** Yes
- **Eligible for Federal Financial Aid:** No (pending approval)

Certificate Requirements

Course	Course Title	Min Credits
Major Requirements		
NADM 280	Cloud Technologies	4
NADM 281	Fundamentals of Microsoft PowerShell and Azure	4
NADM 282	Microsoft Azure Administrator	4
NADM 283	Microsoft 365 Messaging Services	4
Minimum Credit Hours Required		16

*All requirements for this degree or certificate may be completed fully online.

NOTE: This certificate is not currently eligible for federal financial aid.

NOTE: This program is not yet approved for GI Bill® use.

Plan of Study Guide

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 Plan of Study Guide. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this course sequence plan.

First Year

Fall		Credit Hours
NADM 280	Cloud Technologies	4
NADM 281	Fundamentals of Microsoft PowerShell and Azure	4
NADM 282	Microsoft Azure Administrator	4
Total Semester Credit Hours		12

Spring

NADM 283	Microsoft 365 Messaging Services	4
Total Semester Credit Hours		4
Minimum Credit Hours Required		16

NOTE: This certificate is not currently eligible for federal financial aid.

Program Learning Outcomes

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

- Describe various cloud models and evaluate business need and applicability.
- Develop strategies for deployment of a cloud infrastructure and troubleshoot and document changes to systems.
- Examine the Windows PowerShell structured language and develop strategies to deploy changes to business infrastructure and output reports for management.
- Analyze the Microsoft model for cloud services and develop strategies for deploying and securing those cloud services.
- Examine the various Azure service level agreements (SLAs), trust roles, and authentication models to meet business needs for cloud models.
- Explain strategies to manage Azure accounts, groups, resources, and storage.
- Examine methods and processes for container orchestration, load balancing, and managing security and performance logs for optimization of the chosen cloud implementation.
- Plan and implement a migration strategy for a cloud-based email system that includes remote authentication and mobile support.
- Develop strategies to manage data access, retention policies, backup plans, and data loss prevention.