NETWORK AND SYSTEM ADMINISTRATION INTERMEDIATE TECHNICAL CERTIFICATE (ITC)

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

Certificate Quick Facts

· Instructional School: Science, Technology, and Math

• Department: Computer Science and Information Technology

• Program Code: NADM.ITC

• 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 <u>Special Course Fees</u> web page.

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
Select one of the following:		3
GEM 1 - Written Communication course		
GEM 2 - Oral Communication course		
GEM 3 - Mathematical Ways of Knowing course		3
GEM 6 - Social & Behavioral Ways of Knowing cou	<u>irse</u>	3
Major Requirements		
NADM 141	Fundamentals of Windows Operating System	3
NADM 143	Network Services	3
NADM 145	Network Design and Security	3
NADM 147	Network Fundamentals and Certification	3
NADM 155	Network Server Management	4
NADM 157	Linux System Administration	4
NADM 159	Security	4
Minimum Credit Hours Required		33

Certificate 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	Vear
riisi	Year

Fall		Credit Hours
NADM 141	Fundamentals of Windows Operating System	3
NADM 143	Network Services	3
NADM 145	Network Design and Security	3
NADM 147	Network Fundamentals and Certification	3
GEM 3 - Mathematical Ways of Knowing course		
	Total Semester Credit Hours	15
Spring		
NADM 155	Network Server Management	4
NADM 157	Linux System Administration	4
NADM 159	Security	4
Select one of the following:		3
GEM 1 - Written Communication course		

GEM 2 - Oral Communication course

GEM 6 - Social & Behavioral Ways of Knowing course	3
Total Semester Credit Hours	18
Minimum Credit Hours Required	33

Program Learning Outcomes

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

- Install and configure a client operating system and demonstrate proficiency in file permissions, disk management, and peer-to-peer user and group
 management.
- Perform advanced subnetting with CIDR, create and document network addressing schemes, configure routers and switches for small to mediumsized networks, demonstrate the use of configuration tools, analyze data frames, test and troubleshoot network connectivity, and resolve any issues
- · Install and configure a server operating system, network services, directory services, network printing, and group policy objects.
- Install and configure a Linux operating system, network services within Linux, and file and folder security with Linux.
- Install and configure a secure network environment, identify common security threats, implement cryptography solutions, and install and configure firewalls for perimeter security.
- Exhibit competencies of Written or Oral Communication (GEM 1 or GEM 2), Mathematical Ways of Knowing (GEM 3), and Social and Behavioral Ways of Knowing (GEM 6).