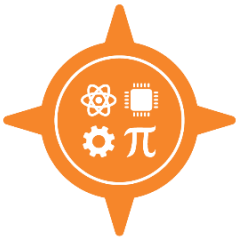


# GUIDED PATHWAY: UNIX ADMINISTRATOR CLOUD COMPUTING CERTIFICATE

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH



For more information, visit the [Dallas College Computer Information Technology webpage](http://www.dcccd.edu/CIT) [www.dcccd.edu/CIT] and your academic advisor at your campus.

This is an example course sequence for students interested in pursuing Networking Security Awards. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn a UNIX Administrator/Cloud Computing Certificate. Courses from this certificate may apply to the related A.A.S. degree. Students must earn at least 25% of the credit hours required for graduation through instruction by Dallas College. See catalog for [official certificate requirements](#).

This certificate option prepares the student to be a UNIX system administrator. Students will learn basic and advanced hands-on skills associated with the UNIX user interface environment, file system structure, account setup and maintenance, system security, shell scripting, and other general tasks associated with day-to-day UNIX management operations in both standalone and networked systems. Multiple versions of UNIX such as Solaris and/or Linux may be presented to better enable student success in varying commercial environments. Courses that complete the certificate are noted below.

Students pursuing this certificate are waived from the [Texas Success Initiative \(TSI\)](#) standards, but must meet course prerequisites, as long as the student completes the TSI waiver form prior to enrollment.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Level I Certificate	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
<a href="#">TSI</a>	May be Exempt	

## SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students. This is not an official degree plan. See catalog for [official certificate requirements](#).

### CERTIFICATE MINIMUM: 20 SEMESTER CREDIT HOURS

#### SEMESTER 1 Total Hours: 8

**CHOOSE ONE:** [ITNW 1425](#) – Fundamentals of Networking Technologies **OR**  
[ITCC 1414](#) – CCNA 1: Introduction to Networks

**CHOOSE ONE:** [ITSC 1407](#) – UNIX Operating System I **OR**  
[ITSC 1416](#) – Linux Installation and Configuration

#### SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm academic and career goals before the end of the semester.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing.

#### SEMESTER 2 Total Hours: 8

**CHOOSE ONE:** [ITSC 2437](#) – UNIX Operating System II  
[ITSC 2425](#) – Advanced Linux **OR**  
[ITCC 1440](#) – CCNA 2: Routing and Switching Essentials

**CHOOSE ONE:** [ITSC 1442](#) – Shell Programming **OR**  
[ITNW 1413](#) – Computer Virtualization

#### SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to request an official degree plan and confirm or update your academic and career path and program of study.

**CHOOSE ONE:** [ITSC 1458](#) – UNIX System Administration I\*  
[ITNW 2471](#) – Server Virtualization: Optimize and Scale\* **OR**  
[ITNW 1492](#) – Special Topics in Computer Systems Networking and Telecommunications\*

*\*This is the capstone experience for this award.*

**SEMESTER 3 ACTION ITEMS**

1. Meet with a career advisor or coach for assistance in preparing for job search.
2. Meet with your advisor to apply for the UNIX Administrator/Cloud Computing Certificate.

**PATHWAY TOTAL: 20 SEMESTER CREDIT HOURS**