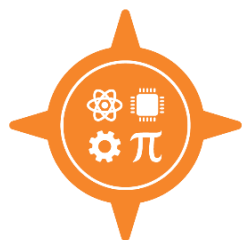


GUIDED PATHWAY: CYBER SECURITY A.A.S. – NETWORK SECURITY ADMINISTRATION EMPHASIS

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH



For more information, visit the [Dallas College Cyber Security webpage](http://www.dcccd.edu/CyberSecurity) [www.dcccd.edu/CyberSecurity] and your academic advisor at the Richland Campus.

This is an example course sequence for students interested in pursuing the Cyber Security Network Security Administration Emphasis associate degree. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (A.A.S.) degree in Cyber Security. Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Dallas College. See catalog for [official degree requirements](#).

The A.A.S. degree program in Cyber Security-Network Security Administration Emphasis is designed to prepare students for various entry-level opportunities in the information security sector with emphasis in secure systems administration. The Network Security Administration Emphasis combines networking fundamentals with the requisite network security concepts and best practices required to implement and administer secure network environments. Students completing this degree can apply for jobs such as: System Administrator, Network Defense Technician, Intrusion Detection System Analyst. Courses that complete the degree are noted below.

Visit the [NTCCC Transfer Consortium](#) to view guided pathways created for students who complete an A.A.S. degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your campus to choose courses that will help you to transfer to a specific university.

Catalog Year	2021-2022	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Associate of Applied Science	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
<u>TSI</u>	Must be Complete	

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 degree requirements](#).

AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS

SEMESTER 1

Total Hours: 15

[ENGL 1301](#) – Composition I *This is a Core course. You must earn a grade of "C" or better.*
[ITCC 1414](#) – CCNA 1: Introduction to Networks
[MATH 1314](#) – College Algebra *This is a Core course. You must earn a grade of "C" or better.*
[POFI 1104](#) – Computer Fundamentals *Students must choose Word Processing Skills or Spreadsheet Skills.*
[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.
3. Get certified in Redhat or Linux+.
4. Attend an industry related meetup group.

SEMESTER 2

Total Hours: 15

[ITSY 1400](#) – Fundamentals of Information Security
[ITMT 2405](#) – Designing and Implementing a Server Infrastructure
[SPCH 1321](#) – Business and Professional Communication *This is a Core course.*
[ITDF 1400](#) – Introduction to Digital Forensics

SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to request an official program of study audit and confirm or update your academic/career path and program of study.
2. Obtain Security+ certification.
3. Attend an industry related meetup group.
4. Participate in Cyber Security club meetings and competitions.

SEMESTER 3

Total Hours: 15

[ITSY 2442](#) – Incident Response and Handling

[ITSY 2401](#) – Firewalls and Network Security

[ITSE 1429](#) – Programming Logic and Design

[HUMANITIES/FINE ARTS ELECTIVE](#) * *This is a Core course.*

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

SEMESTER 3 ACTION ITEMS

1. Meet with a career advisor or coach for assistance in preparing for job search.
2. Obtain CCENT certification.
3. Attend an industry related meetup group.
4. Participate in Cyber Security club meetings and competitions.
5. Meet with faculty regarding internship opportunities.

SEMESTER 4

Total Hours: 15

[ITCC 2412](#) – CCNA 3: Scaling Networks

[ITSY 1442](#) – Information Technology Security

[SOCIAL/BEHAVIORAL SCIENCES ELECTIVE](#) * *This is a Core course.*

CHOOSE ONE: [ITSY 2472](#) – Ethical Hacking and System Defense **OR**

[ITSY 2486](#) – Internship-Computer and Information Systems Security

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

SEMESTER 4 ACTION ITEMS

1. Obtain Pentest+ Certification.
2. See faculty or career services for employment opportunities.
3. Review your degree plan and apply for the Cyber Security A.A.S.
4. Sign up for Commencement.
5. Join the [Alumni Network](#)!

PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS