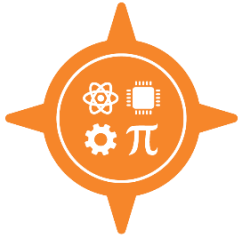# DALLAS COLLEGE

GUIDED PATHWAY: INFORMATION SECURITY CERTIFICATE

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH

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

This is an example course sequence for students interested in pursuing the Networking Security Awards. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Information Security 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 provides hands-on, in-depth training to meet industry demands and concerns in protecting critical information infrastructures against cyber threats. The graduate will be qualified for entry-level positions in a network environment dealing with security challenges.

Students pursuing this certificate are waived from the Texas Success Initiative (TSI) standards, but must meet course prerequisites.

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
TSI	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: 28 SEMESTER CREDIT HOURS

PREREQUISITES

Extensive knowledge of the computer field is required including basic understanding of personal computers and operating systems as obtained in ITSC 1401 or BCIS 1405 or COSC 1301, as well as strong networking concepts obtained in Cisco and/or Microsoft networking courses or equivalent experiences approved by designated Information Technology personnel. It is further recommended that you have one or more of the following: Certificate and/or A.A.S. in networking, BS or BA in Computer Science, or Cisco CCNA, Novell CNE, Microsoft MCSA and/or MCSE, A+ and Network+, SCSA, UNIX/Linux certification, or other vendor specific certifications. It is recommended that you discuss your computer knowledge with one of the instructors teaching the courses to insure you have the required foundation to succeed.

SEMESTER 1   Total Hours: 16

ITSY 1400 – Fundamentals of Information Security
ITSY 1442 – Information Technology Security
ITSY 2400 – Operating System Security
CHOOSE ONE: **ITSY 2401** – Firewalls and Network Security *OR*
                 ITCC 2441 – CCNA Security

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 and for assistance in preparing for job search.

SEMESTER 2   Total Hours: 12

ITSY 2442 – Incident Response and Handling

CHOOSE ONE: **ITSY 2459** – Security Assessment and Auditing *This course is the capstone experience.* **OR**
                 ITSY 2445 – Network Defense and Countermeasures *This course is the capstone experience.*
CHOOSE ONE: **ITSY 1491** – Special Topics in Information Technology/Security
                 ITSY 2441 – Security Management Practices **OR**
                 ITSY 2443 – Computer System Forensics

SEMESTER 2 ACTION ITEMS
1. Meet with your advisor to apply for the Information Security Certificate.

PATHWAY TOTAL: 28 SEMESTER CREDIT HOURS