

Awards

ASSOCIATE DEGREES:

IT/Network Administration (A25590A)
IT/Database Management (A25590B)
IT/Computer Programming & Development (A25590C)
IT/Digital Media Technology (A25590D)
IT/Multimedia & Interactive Entertainment Technologist (A25590E)
IT/User Interface and Experience Design (A25590I)
IT/Network Management (A25590N)
IT/PC Support & Services (A25590P)
IT/Systems Security & Analysis (A25590S)
IT/Cloud Management (A25590U)

Length of Program: 5 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

CERTIFICATES:

IT/Java Programming Certificate (C25590C1)
IT/C# Programming Certificate (C25590C2)
IT/Mobile Application Development Certificate (C25590C3)
IT/Database Programming Certificate (C25590C5)
IT/Digital Animation Certificate (C25590C7)
IT/Microsoft Networking Certificate (C25590C12)
IT/Python Programming Certificate (C25590C20)
IT/Intro to iOS Development Using Swift Certificate (C25590C27)
IT/Microsoft Server Administration Certificate (C25590C31)

Length of Program: 3 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

CERTIFICATES:

IT/Digital Media Basics Certificate (C25590C4)
IT/Cisco Networking Certificate (C25590C8)
IT/Computer Technologies Certificate (C25590C9)
IT/Linux Certificate (C25590C10)
IT/Hardware and Software Certificate (C25590C11)
IT/Microsoft Desktop Support Certificate (C25590C13)
IT/Mobile & Web Basics Certificate (C25590C14)
IT/Cyber Crime Fundamentals Certificate (C25590C15)
IT/Cyber Crime Analysis Certificate (C25590C16)
IT/Cyber Security Operations Certificate (C25590C17)
IT/Information Technology Basics Certificate (C25590C18)
IT/Network Defense Specialist Certificate (C25590C21)
IT/Microsoft Office Specialist Excel & Access Certificate (C25590C22)
IT/Mobile Design Certificate (C25590C23)
IT/Cisco Entry Networking Certificate (C25590C26)
IT/Cloud Management Certificate (C25590C29)
IT/Audio and Video Editing Certificate (C25590C30)
IT/UI-UX Certificate (C25590C32)
IT/Computer Science Transfer Certificate (C25590C33)
IT/Digital Marketing Technology Certificate (C25590C34)
IT/Social Media Content Production Certificate (C25590C35)
IT/Business Intelligence Certificate (C25590C37)

Length of Program: 2 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

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Awards

IT/CompTIA Essentials Certificate (C25590C36)
IT/Support Technology Specialist Certificate (C25590C38)

Length of Program: 1 Semester

Prerequisite: High School Diploma, Placement Test Equivalent

HIGH SCHOOL CONNECTIONS CERTIFICATES:

IT/Digital Media Basics Certificate (C25590H2)
IT/Hardware and Software Certificate (C25590H3)
IT/Computer Technologies Certificate (C25590H4)
IT/Network Defense Specialist Certificate (C25590H5)
IT/Python Programming Certificate (C25590H8)
IT/Cisco Entry Networking Certificate (C25590H9)
IT/Intro to iOS Development Using Swift Certificate (C25590HB)
IT/Audio and Video Editing Certificate (C25590HC)
Computer Science Transfer Certificate (C25590HE)
IT/Microsoft Desktop Support Certificate (C25590HF)

Length of Program: 2 Semesters

Prerequisite: Placement Test Equivalent

Program Information Contact

Curriculum Chairperson

Rhiannon Holley
(910) 486-7309

General Classroom Building, Room 202-R
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<https://www.faytechcc.edu/academics/computer-information-technology-programs/cyber-defense-education-center/>



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SOUTHERN ASSOCIATION OF COLLEGES & SCHOOLS COMMISSION ON COLLEGES

Fayetteville Technical Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees, diplomas, and certificates. Degree-granting institutions also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Fayetteville Technical Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

IT/SYSTEMS SECURITY & ANALYSIS



National Center
of Academic
Excellence in
Cybersecurity
Defense (NCAE-CD)



www.faytechcc.edu

*Fayetteville Technical
Community College*

910-678-8400

P.O. Box 35236 • 2201 Hull Road
Fayetteville, NC 28303

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PROGRAM FACT SHEET INFORMATION TECHNOLOGY/ SYSTEMS SECURITY & ANALYSIS (A25590S)



The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/

or hardware to design, process, implement, and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE INFORMATION TECHNOLOGY/SYSTEMS SECURITY & ANALYSIS (A25590S)

Effective: Fall 2023

Revised: 01/10/23

Length: 5 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

Award: Associate in Applied Science

SEMESTER 1

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|--------------------------|----------|-----------|----------|-----------|
| ACA | 120 | Career Assessment | 1 | 0 | 0 | 1 |
| or | | | | | | |
| ACA | 122 | College Transfer Success | 0 | 2 | 0 | 1 |
| CTI | 120 | Network & Sec Foundation | 2 | 2 | 0 | 3 |
| *NET | 125 | Introduction to Networks | 1 | 4 | 0 | 3 |
| **NET | 126 | Routing Basics | 1 | 4 | 0 | 3 |
| NOS | 110 | Operating Systems Conc | 2 | 3 | 0 | 3 |
| SEC | 110 | Security Concepts | 2 | 2 | 0 | 3 |
| TOTALS | | | 8 | 15 | 0 | 16 |

SEMESTER 2

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|---------------------------|-----------|----------|----------|-----------|
| CTI | 110 | Web, Pgm, I DB Foundation | 2 | 0 | 0 | 3 |
| ENG | 110 | Freshman Composition | 3 | 0 | 0 | 3 |
| or | | | | | | |
| ENG | 111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
| MAT | 143 | Quantitative Literacy | 2 | 2 | 0 | 3 |
| or | | | | | | |
| MAT | 171 | Precalculus Algebra | 3 | 2 | 0 | 4 |
| NOS | 120 | Linux/Unix Single User | 2 | 2 | 0 | 3 |
| SEC | 150 | Secure Communications | 2 | 2 | 0 | 3 |
| TOTALS | | | 11 | 8 | 0 | 15 |

SEMESTER 3

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|---------------------------|----------|----------|----------|----------|
| NOS | 220 | Linux/Unix Admin I | 2 | 2 | 0 | 3 |
| SEC | 160 | Security Administration I | 2 | 2 | 0 | 3 |
| TOTALS | | | 4 | 4 | 0 | 6 |

SEMESTER 4

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|----------------------------|-----------|----------|----------|-----------|
| CTS | 115 | Info Sys Business Concepts | 3 | 0 | 0 | 3 |
| HUM | 110 | Technology and Society | 3 | 0 | 0 | 3 |
| NOS | 230 | Windows Administration I | 2 | 2 | 0 | 3 |
| SEC | 175 | Perimeter Defense | 1 | 4 | 0 | 3 |
| SEC | 210 | Intrusion Detection | 2 | 2 | 0 | 3 |
| TOTALS | | | 11 | 8 | 0 | 15 |

SEMESTER 5

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|---------------------------|-----------|----------|----------|-----------|
| COM | 120 | Intro Interpersonal Com | 3 | 0 | 0 | 3 |
| or | | | | | | |
| COM | 231 | Public Speaking | 3 | 0 | 0 | 3 |
| PSY | 150 | General Psychology | 3 | 0 | 0 | 3 |
| or | | | | | | |
| SOC | 210 | Introduction to Sociology | 3 | 0 | 0 | 3 |
| SEC | 285 | Systems Security Project | 1 | 4 | 0 | 3 |
| | | Major Elective | 3 | 2 | 0 | 5 |
| TOTALS | | | 10 | 6 | 0 | 14 |

TOTAL REQUIRED CREDITS...66

*First 8 weeks **Second 8 weeks

Work-Based Learning Option: Qualified students may elect to take up to two (2) credit hours of Work-Based Learning in lieu of a major elective provided they acquire approval from the Work-Based Learning Coordinator and the Department Chairperson.

***Note:** Students **may not** take an introductory foreign language to fulfill the Humanities/Fine Arts requirement.

Other Important Information

Application Deadlines: The program only admits students in the fall semester. A student may enter at other times with approval of the Department Chairperson.

Scholarship/Title IV Financial Aid/VA Services: Scholarships/Title IV Financial Aid/Veteran's assistance may be available for associate degrees. Certificates and diplomas that fall under this program/area of study **may or may not be eligible** for Scholarship/Title IV Financial Aid/VA Services. Please contact the Financial Aid Office, Student Center, Room 2; Telephone (910) 678-8242. Veterans Services, General Classroom Building, Room 202, (910) 678-8580.

Refer to the FTCC website for the most current information. Go to www.faytechcc.edu and click on College Catalog.