

# *Computer Information Systems Technology*

# **Microcomputer/Networking**

www.dtcc.edu • Delaware Technical & Community College

*The Computer Information Systems Technology, Microcomputer/Networking Option prepares students for careers in applied programming and other computer-related fields such as web development, internet programming, network security, and computer forensics. The curriculum consists of a core set of courses in programming, software applications, systems analysis, and related accounting and mathematics courses. Consequently, students gain broad experience with a wide range of hardware and software. The Computer Information Systems program also prepares students desiring a baccalaureate degree for transfer to any four-year institution.*

## **What You'll Learn...**

- Computer forensics and security programs
- Use standard application software
- Installation, maintenance, and administration of computer networks
- A variety of computer programming languages in DOS and Windows environments
- Internet/Web constructions & Web commerce and Internet programming
- Certifications in A+, MOS, MCP, MCSA, and MCSE
- Analysis and design of computer systems

## **What You'll Earn...**

- A competitive salary with excellent opportunities for advancement
- Employment opportunities as a computer programmer, network installation technician, or systems analyst
- The opportunity to broaden and advance your skills in new areas

## **Why You'll Succeed...**

- More than half of all new jobs created require an education beyond high school
- Employees with degrees tend to be more eligible for promotion\*
- Associate degree holders generally earn more than high school graduates\*
- College credit may be awarded for relevant work experience
- Many credits from an Associate Degree may be applied toward a Bachelor Degree
- Direct transfer to a Bachelor Degree program at Wilmington College

*\*Statistics from U.S. Department of Commerce, Bureau of Census*

# Microcomputer/Networking

You can enroll in the Computer Information Systems Technology on either a full-time or part-time basis. The length of time required to complete an Associate Degree depends on the number of courses you take each semester. Some students may need refresher courses at the basic or pre-tech level; others may receive transfer credit or credit for work experience. Delaware Tech operates on a semester system with new terms beginning in late August and mid-January, plus summer terms beginning at the end of May and in mid-June. You can start taking courses any semester or summer term; however, all technical courses may not be offered every term. This program also offers several certificates in Microcomputers, Networking, and Windows Programming

## CORE COURSES

| Courses   | Credits |
|---|---------|
| ECO 111    Macroeconomics .....                     | 3       |
| ENG 121    Composition.....                         | 3       |
| <i>or</i>   |         |
| ENG 125    Honors Composition .....                 | 3       |
| ENG 122    Technical Writing & Communication .....  | 3       |
| <i>or</i>   |         |
| ENG 130    Honors Technical Writing & Communication | 3       |
| MAT 153    College Math & Statistics.....           | 4       |

Select one (1) course from

|                                      |   |
|--------------------------------------|---|
| COM 111    Human Communications..... | 3 |
| ECO 122    Microeconomics .....      | 3 |
| POL 111    Political Science.....    | 3 |
| PSY 100    Human Relations.....      | 3 |
| PSY 121    General Psychology .....  | 3 |
| SOC 111    Sociology I.....          | 3 |

## TECHNICAL SUPPORT/COMPUTER COURSES

| Courses                                    | Credits |
|--|---------|
| ACC 101    Accounting I.....               | 4       |
| CIS 240    Systems Analysis & Design ..... | 4       |

Select four (4) courses from

|   |   |
|---|---|
| ACC 112    Accounting II.....             | 4 |
| CIS 160    Internet/Web Construction..... | 3 |
| CIS 170    Internet/Web Multimedia.....   | 3 |

|  |   |
|--|---|
| CIS 194    Networking Technologies .....           | 3 |
| CIS 205    Intro Object Oriented Programming ..... | 4 |
| CIS 207    Visual Programming .....                | 4 |
| CIS 209    Advanced Visual Programming.....        | 4 |
| CIS 280    Applied Programming Workshop.....       | 4 |
| MAT 251    Finite Math .....                       | 3 |
| OAT 242    Desktop Publishing .....                | 4 |

## TECHNICAL COURSES

| Courses  | Credits |
|--|---------|
| CIS 107    Introduction to Computers & Application ..... | 3       |
| CIS 112    Spreadsheet/Graphics Processing .....         | 3       |
| CIS 120    Introduction to Programming .....             | 4       |
| CIS 125    Window Based Operating Systems .....          | 4       |
| CIS 195    Network Administration .....                  | 3       |
| CIS 201    Microdatabase Programming.....                | 4       |

Select four (4) courses from

|  |   |
|--|---|
| CIS 150    C/C++ Programming Language.....             | 4 |
| CIS 180    Internet/Script Programming .....           | 4 |
| CIS 190    Network Installation & Maintenance .....    | 3 |
| CIS 192    Network Technology & Administration (MS). 4 |   |
| CIS 197    Network Advanced Administration (MS).....   | 4 |
| CIS 212    Internetworking & Support (MS) .....        | 4 |
| CIS 243    Information & Network Security .....        | 4 |
| CIS 253    Open Source Software .....                  | 4 |
| CIS 260    Internet & Web Commerce.....                | 4 |
| CIS 270    Computer Forensics.....                     | 2 |

## Getting Started

1. Obtain an application by calling (302)857-1020. Complete and return to the Terry Campus with a \$10 application fee.
2. Take the College Placement Test (CPT) *unless college-level math, reading, and English courses have been completed with a "C" grade or better.* The CPT will determine appropriate placement and is scheduled by the Admissions Office.
3. Request that high school and/or college transcripts be sent to the Admissions Office.
4. Meet with a Delaware Tech counselor to discuss CPT results.
5. Meet with advisor to plan schedule.
6. Apply and register early for the best selection of courses.

## Standards of Excellence

- ❖ The employment placement rate for this program is over 90%
- ❖ Prepare for certifications in A+, MCP, MCSE, and MOS