Program Description:
The Information Technology program at Tulsa Community College provides students with the skills needed to work in today's rapidly changing Information technology environment. Students may earn an Associate in Applied Science degree in any of the following eight (8) options:

1) Business Application Professional
2) Information Technology
3) Mobile Computing Development
4) Networking and Cloud Computing
5) Programming
6) Systems Support Technician
7) Web Development
8) Website Management

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division:
Metro: (918) 595-7039, Southeast: (918) 595-7639,
West: (918) 595-8033
Business, Information, and Engineering Technologies Division:
Northeast: (918) 595-7439

General Education Requirements Credit Hours: 18

Communication 9 hours
*ENGL 1113 Composition I
and select one course from the following:
*ENGL 1213 Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communication I
and select one course from the following:
COMM 1113 Public Speaking
COMM 2103 Interpersonal Communication

Mathematics 3 hours
Select one course from the following:
BUSN 1353 Business Mathematics
*MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42

Core Courses 15 hours
(required for all options)

Business 3 hours
Select one course from the following:
BUSB 1053 Introduction to Business
MGMT 2363 Principles of Management

Computer Information Systems 12 hours
CSCI 1203 Computer Concepts and Applications
CSCI 1263 Network Fundamentals
*CSYS 1013 HTML and CSS
CSYS 1203 Introduction to Computer Programming

Select from one of the eight (8) degree options:

1) Business Application Professional Option 27 hours
The Business Application Professional program is designed to prepare business professionals and information managers with the diversity of computer technology and applications software skills needed (1) to complete business tasks and projects efficiently and profitably, (2) to collaborate and connect to vital business resources, (3) to use desktop applications with an executive focus, and (4) to prepare for the Microsoft Certified Application Specialist exams (MCAS).

Information Systems 15 hours
*CSCI 2013 Word
*CSCI 2033 Excel
*CSCI 2043 Access
*CSCI 2163 Windows Operating Systems
*CSCI 2483 PowerPoint/Multimedia
INFORMATION TECHNOLOGY
Workforce Development Degree

5) Programming Option 27 hours
The Programming option is designed to provide graduates with the logic and programming skills needed to design and create computer programs in a wide range of programming languages that satisfy the needs of business and industry.

Information Systems 24 hours
Select one of the following two courses:
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 2163 Windows Operating Systems
Select all of the following:
*CSCI 2133 Introduction to JAVA
*CSCI 2283 Visual Basic
*CSCI 2473 C Language
*CSCI 2843 C++ Programming Language
*CSCI 2893 Advanced Visual Basic
*CSYS 2413 Advanced JAVA
*CSYS 2643 Database Design and SQL

Controlled Electives 12 hours
Any 2000 level CSYS/CSCI/ITCV course
The following are highly recommended:
*CSCI 2323 Outlook
*CSCI 2343 Visual Basic for Applications
or
*CSCI 2283 Visual Basic
*CSCI 2983 Information Technology Internship
CSYS 1063 Digital Image Editing

2) Information Technology Option 27 hours
The Information Technology option seeks to provide maximum flexibility in designing a course curriculum through electives which meets the needs of students in the Information Technology field.

Select 27 credit hours from any CSCI, CSYS or ITCV courses.

3) Mobile Computing Development Option 27 hours
This program is designed to provide graduates with the depth and diversity of skills needed for employment in the field of mobile application development.

* CSCI 2473 C Language
* CSCI 2843 C++ Programming Language
* CSCI 2133 Introduction to Java
* CSYS 1793 Mobile Development - iPhone
* CSYS 2033 Scripting
* CSYS 2623 Mobile Development - Advanced iPhone
* CSYS 2793 Mobile Development - Android
* CSYS 2823 Mobile Game Development
* CSYS 2843 Mobile Development - Capstone

4) Networking and Cloud Computing Option 27 hours
The Networking program is designed to provide skills needed to work in today’s changing IT network environment. Many of these courses help prepare students to take industry certification exams.

* CSCI 1483 Intro to UNIX (Linux)
* CSYS 2063 Windows Server Administration
* CSYS 2493 Principles of Information Assurance
* ITCV 1033 Introduction to Voice & Data Networking
* ITCV 2293 Cloud Computing
* ITCV 2023 Wireless Networking
* ITCV 2033 Cisco/CENT/ICND1
* ITCV 2203 Cisco CCNA Routing and Switching/ICND2
* CSYS 2563 Enterprise Security

* CSYS 2643 Database Design and SQL

Controlled Electives 9 hours

* CSYS 2563 Enterprise Security
* ITCV 2023 Wireless Networking
* ITCV 2033 Cisco/CENT/ICND1
* ITCV 2203 Cisco CCNA Routing and Switching/ICND2
* ITCV 2393 Cloud Computing
INFORMATION TECHNOLOGY
Workforce Development Degree

7) Web Development Option 27 hours
This program is designed to provide graduates with the knowledge required to assume the role of a Web application developer. Completion of this program will allow a student to create interactive Website front ends using (X)HTML, JavaScript, and CSS and the student will be able to code server side components for delivering content to database driven Websites and Web applications.

Information Systems 24 hours
*CSCI 2163 Windows Operating Systems
CSCI 2283 Visual Basic
*CSYS 2033 Scripting
*CSYS 2463 PHP Programming
*CSYS 2503 ASP.NET
*CSYS 2643 Database Design and SQL
*CSYS 2853 Ruby
*CSYS 2863 Rails 1

Controlled Electives 3 hours
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 2983 Information Technology Internship
*CSYS 1153 Adobe Dreamweaver
*CSYS 2873 Rails II

8) Website Management Option 27 hours
The Website Management option is designed to provide graduates with the skills needed to develop and promote a business through effective informational and e-business Websites.

Information Systems 15 hours
*CSCI 1483 Introduction to UNIX (Linux)
*CSYS 1063 Digital Image Editing
*CSYS 1393/MKTG 1393 Web Design and Marketing
*CSYS 1443/MKTG 1443 Electronic Commerce
*CSYS 2033 Scripting

Controlled Electives 12 hours
*CSCI 2163 Windows Operating Systems
*CSCI 2043 Access
*CSCI 2983 Information Technology Internship
MKTG 2423 Principles of Marketing
MKTG 2393 Advertising and Promotion Management
MGMT 2123 Leadership Development

Total Credit Hours 60
*Course has prerequisite (See course description section of catalog).