

# Computer Technology Integration

**A.A.S. Degree (A25500)**

**Certificate (C25500C)**

## Business Technologies

### Job Outlook

According to the U.S. Department of Labor's *Occupational Outlook Handbook*, "Employment of computer support specialists is projected to grow 17 percent from 2012 to 2022, faster than the average for all occupations. More support services will be needed as organizations upgrade their computer equipment and software."

Source: Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2014-15 2014-15 Edition, Computer Support Specialists, on the Internet at <http://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm> (visited May 19, 2014).*

"Employment of network and computer systems administrators is projected to grow 12 percent from 2012 to 2022, about as fast as the average for all occupations. Growth will be highest at firms that provide cloud computing technology."

Source: Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2014-15 2014-15 Edition, Network and Computer Systems Administrators, on the Internet at <http://www.bls.gov/ooh/computer-and-information-technology/network-and-computer-systems-administrators.htm> (visited May 19, 2014).*

Note: Job Outlook information is based on national statistics.

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The Computer Technology Integration curriculum prepares graduates for employment as designers, testers, support technicians, administrators, developers, or programmers with organizations that use computers to design, process, manage, and communicate information, depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to communicate and solve technical issues related to information support and services, interactive media, network systems, programming and software development, 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.

### Courses Credits

#### Computer Technology Integration A.A.S. Degree (A25500)

##### General Education Required Courses

COM 110	Introduction to Communication OR	
COM 231	Public Speaking .....	3
ENG 111	Writing and Inquiry .....	3
HUM 115	Critical Thinking .....	3
MAT 143	Quantitative Literacy OR .....	3
MAT 171	Precalculus Algebra .....	4
	Social/Behavioral Sciences Elective .....	3

**Total General Education Required Hours ..... 15-16**

##### Major Required Courses

CIS 110	Introduction to Computers .....	3
CTI 110	Web, Programming and Database Foundation .....	3
CTI 120	Network and Security Foundation .....	3
CTI 289	CTI Capstone Project .....	3
CTS 115	Information Systems Business Concepts .....	3
CTS 120	Hardware/Software Support.....	3
NET 110	Networking Concepts.....	3
NET 125	Networking Basics.....	3
NET 126	Routing Basics.....	3
NET 225	Routing and Switching I.....	3
NET 226	Routing and Switching II.....	3
NOS 110	Operating System Concepts .....	3
NOS 120	Linux/UNIX Single User.....	3
NOS 130	Windows Single User .....	3
NOS 230	Windows Administration I .....	3
NOS 231	Windows Administration II.....	3
SEC 110	Security Concepts .....	3

**Total Major Required Hours..... 51**

**Total Credit Hours Required for A.A.S. Degree ..... 66-67**

#### Cisco Certificate (C25500C)

CTI 110	Web, Programming and Database Foundation .....	3
NET 110	Networking Concepts.....	3
NET 125	Networking Basics.....	3



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A.A.S. Degree (A25500) Certificate (C25500C)

## Occupational Information

Visit the link below to find out more about occupations in this field including skills, education, potential wages and more.

### Computer User Support Specialists

CIP Code: 11.0201 SOC Code: 15-1151.00  
<http://www.onetonline.org/link/summary/15-1151.00>

### Network and Computer Systems Administrators

CIP Code: 11.0201 SOC Code: 15-1142.00  
<http://www.onetonline.org/link/summary/15-1142.00>

## Program Contact

Susan Stinson, (704) 978-3113,  
[ssinson@mitchellcc.edu](mailto:ssinson@mitchellcc.edu)

NET 126	Routing Basics .....	3
NET 225	Routing and Switching I.....	3
NET 226	Routing and Switching II .....	3
<b>Total Credit Hours Required for Certificate Program.....</b>		<b>18</b>

## Other Programs

If you are interested in a computer-related program, Mitchell offers:

- Digital Media Technology A.A.S. Degree (A25210)
- Digital Media Technology Certificate (C25210)

For more information on this and other programs, including application, admission requirements, and elective options, visit our website at [www.mitchellcc.edu](http://www.mitchellcc.edu) to view the current College catalog.

## Other Information

Mitchell is a member of the MSDN Academic Alliance, a program through Microsoft, that makes it easier and less expensive for students to obtain Microsoft developer tools, platforms, and servers for instructional and research purposes. Information is available at <http://msdn.microsoft.com/en-us/academic/bb250614.aspx#what>