

# Computer Technologies

## Associate of Applied Science

### Mission Statement

The Computer Technologies Department is committed to student success. We address the disparate and constantly changing needs of students throughout the GBC service area who are preparing for technology-driven careers by improving our methods, techniques, and content to deliver high-quality educational experiences.

<b>Certificate of Achievement</b> <i>One Year</i>	<b>Emphases in the Computer Technologies Associate Degrees</b> <i>Two Years</i>	<b>Bachelor Degrees</b> <i>Four Years</i>
	AAS-CT - Computer Programming AAS-CT - Network Specialist	BAS - Digital Information Technology or BAS - Management and Supervision Emphasis
Office Technology	AAS-CT - Office Technology	
Graphic Communications	AAS-CT - Graphic Communications AA Pattern of Study - Graphic Communications AAS-CT - Web Development	BAS - Graphic Communications or BAS - Digital Information Technology or BAS-Management and Supervision Emphasis
	AS - Land Surveying	BAS - Land Surveying/Geomatics
Medical Coding and Billing	<i>The non-MCOD classes taken for the Medical Coding and Billing Certificate apply toward an Associate Degree</i>	

## Computer Technologies

### Associate of Applied Science — Computer Technologies Computer Programming Emphasis

**Professional Skills and Career Paths**

Software Developer, Database Developer, Applications Programmer, and IT Project Manager.

**Student Learning Outcomes**

Graduates of this degree program will have the knowledge and skills to:

- Design, implement, and test a computer program to meet a desired specification for a problem.
- Apply computing and logical reasoning to analyze a problem and formulate the appropriate solution.
- Build interactive web applications showing good design.
- Build effective databases to solve business-oriented problems.
- Use computer networks and operating systems to full advantage in a business setting.

<b>General Education Requirements</b>	<b>Credits</b>
English/Communications.....	6
ENG 100 or 101, and ENG 102 (recommended)	
Mathematics.....	3
MATH 126 or higher, includes STAT 152	
MATH 127 (recommended)	
Science— PHYS 100 (recommended) .....	3
Social Science—PSC 101 .....	3
Human Relations .....	3
Humanities or Fine Arts .....	3
Technology—CIT 129 (required).....	3

List of courses fulfilling general education requirements is on page 81.

<b>Program Core Requirements</b>	<b>Credits</b>
CIT 151 Beginning Web Development .....	3
COT 204 Using Windows.....	3
IS 201 Computer Applications .....	3

<b>Program Emphasis Requirements</b>		<b>Credits</b>
CIT 110	A+ Hardware .....	3
CIT 130	Beginning Java .....	3
CIT 152	Web Script Language Programming.....	3
CIT 174	Linux Systems Administration .....	3
CIT 180	Database Concepts & SQL .....	3
CIT 263	Project Management .....	3
CS 135	Computer Science I.....	3
CSCO 120	CCNA Internetworking Fundamentals..	3
GRC 188	Web Animation I .....	3

**SUGGESTED COURSE SEQUENCE  
AAS—Computer Technologies  
Computer Programming Emphasis**

<b>FALL—1st Semester</b>	<b>Credits</b>
CIT 110	3
CIT 129	3
ENG 100 or 101	3
IS 201	3
MATH 126	3
<b>TOTAL</b>	<b>15</b>

  

<b>SPRING—2nd Semester</b>	<b>Credits</b>
COT 204	3
CS 135	3
CSCO 120	4
ENG 102	3
HUMANITIES/FINE ARTS*	3
<b>TOTAL</b>	<b>16</b>

  

<b>FALL—3rd Semester</b>	<b>Credits</b>
CIT 130	3
CIT 151	3
CIT 180	3
HUMAN RELATIONS*	3
SCIENCE*	3
<b>TOTAL</b>	<b>15</b>

  

<b>SPRING—4th Semester</b>	<b>Credits</b>
CIT 152	3
CIT 174	3
CIT 263	3
GRC 188	3
PSC 101 or HIST 101 and 102	3
<b>TOTAL</b>	<b>15</b>

**Minimum Credits: 61**

**\*Select from page 81.**

After the AAS in Computer Programming, the next step could be the Bachelor of Applied Science in Digital Information Technology Emphasis. See page 130.