

Computer Technologies

Associate of Applied Science — Computer Programming Emphasis

Student Learning Outcomes

The Computer Programming emphasis provides students with a broad knowledge of computer systems and technologies as well as a strong problem solving and analysis skills. Upon completion of the Associate of Applied Science (AAS) Degree with an emphasis in Computer Programming, a successful student will have acquired the knowledge and technical skills needed to be employed and productive in the computer technology field in positions such as Software Developer, Database Developer, Applications Programmer, and IT Project Manager.

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.
- Ability to apply knowledge of computing and logical reasoning necessary to analyze a problem and identify, formulate and use the appropriate analytical skills to obtain a 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.

General Education Requirements	Credits
<input type="checkbox"/> GBC Orientation	0.5
<input type="checkbox"/> English/Communications	6
ENG 101 and ENG 102 (recommended)	
<input type="checkbox"/> Mathematics	3
MATH 126 or higher (MATH 127 recommended)	
<input type="checkbox"/> Science	3
PHYS 100 (recommended)	
<input type="checkbox"/> Social Science (PSC 101)	3
<input type="checkbox"/> Human Relations	3
<input type="checkbox"/> Humanities or Fine Arts	3
<input type="checkbox"/> Technology	3
GIS 109 or GRC 119	

List of courses fulfilling general education requirements is on page 68.

Emphasis Courses	Credits
<input type="checkbox"/> CIT 110 A+ Hardware	3
<input type="checkbox"/> CIT 112 Network +	3
<input type="checkbox"/> CIT 130 Beginning Java	3
<input type="checkbox"/> CIT 151 Beginning Web Development	3
<input type="checkbox"/> CIT 174 Linux Systems Administration	3
<input type="checkbox"/> CIT 180 Database Concepts & SQL	3
<input type="checkbox"/> CIT 252 Web Database Development	3
<input type="checkbox"/> CIT 263 Project Management	3
<input type="checkbox"/> COT 204 Using Windows	3
<input type="checkbox"/> CS 135 Computer Science I	3
<input type="checkbox"/> IS 201 Computer Applications	3
<input type="checkbox"/> GRC 188 Web Animation and Interactivity	3

SUGGESTED COURSE SEQUENCE AAS—Computer Technologies Computer Programming Emphasis

FALL—1st Semester	Credits	
INT 100	0.5	<input checked="" type="checkbox"/>
GIS 109 or GRC 119	3	<input type="checkbox"/>
IS 201	3	<input type="checkbox"/>
CIT 112	3	<input type="checkbox"/>
ENG 101	3	<input type="checkbox"/>
MATH 126	3	<input type="checkbox"/>
TOTAL	15.5	
SPRING—2nd Semester	Credits	
CIT 110	3	<input checked="" type="checkbox"/>
COT 204	3	<input type="checkbox"/>
CS 135	3	<input type="checkbox"/>
ENG 102	3	<input type="checkbox"/>
HUMANITIES/FINE ARTS*	3	<input type="checkbox"/>
TOTAL	15	
FALL—3rd Semester	Credits	
CIT 151	3	<input checked="" type="checkbox"/>
CIT 130	3	<input type="checkbox"/>
CIT 180	3	<input type="checkbox"/>
HUMAN RELATIONS*	3	<input type="checkbox"/>
SCIENCE*	3	<input type="checkbox"/>
TOTAL	15	
SPRING—4th Semester	Credits	
CIT 174	3	<input checked="" type="checkbox"/>
CIT 252	3	<input type="checkbox"/>
CIT 263	3	<input type="checkbox"/>
GRC 188	3	<input type="checkbox"/>
PSC 101 or HIST 101 and HIST 102	3	<input type="checkbox"/>
TOTAL	15	

*Select from page 68. Refer to page 72. **Minimum Credits: 60.5**

After the AAS in Computer Programming, the next step could be the Bachelor of Applied Science in Digital Information Technology. See page 112.