
COMPUTER TECHNOLOGY - PROGRAMMING (AOC)

PROGRAM OVERVIEW

James House, Jr., *Department Chair*
 jhouse@allegany.edu
 Technology 226
 301-784-5308

This curriculum is designed for individuals interested in pursuing a career in computer programming. Curriculum concentration includes a hands-on focus of programming languages, documentation, structured design principles, data storage concepts, computer arithmetic, control structures, and file processing concepts.

Successful completion of this program qualifies a student to apply for an Associate of Applied Science degree in Computer Technology - Area of Concentration in Programming.

COURSE REQUIREMENTS

REQUIRED COMPUTER TECHNOLOGY COURSES

COMP-101	Computer Literacy
COMP-103	Computer Logic
COMP-107	Introduction to Cybersecurity
COMP-191	Web Page Development
COMP-221	Office Applications I
COMP-225	Introduction to Networking
COMP-229	Database Design and Implementation
COMP-234	Computer Science Programming I
COMP-236	Web Programming
COMP-238	Computer Science Programming II
COMP-241	Python Programming I
COMP-246	Python Programming II

REQUIRED GENERAL COURSES

BUAD-101 or BUAD-104	Introduction to Business or Sales and Customer Service
ENG-101	English Composition I
ENG-112	Business and Technical Communication
SPCH-101	Speech Communication

REQUIRED ELECTIVE COURSES

Please consult with your advisor or the Advising Center staff for selecting appropriate elective courses for graduation.

Science Elective - 3 credits

Mathematic Elective - 3 credits

Social and Behavioral Science Elective - 3 credits

PROGRAM PATH

PROGRAMMING

AREA OF CONCENTRATION

FIRST SEMESTER

	<u>Credit Hours</u>
Computer Technology 101 (Computer Literacy)	3
Computer Technology 103 (Computer Logic)	4
Computer Technology 107 (Introduction to Cybersecurity)	3
English 101 (English Composition I)	3
Mathematics Elective	3
Total:	16

SECOND SEMESTER

Computer Technology 191 (Web Page Development)	3
Computer Technology 221 (Office Applications I)	3
Computer Technology 241 (Python Programming I)	3
English 112 (Business and Technical Communications)	3
Social and Behavioral Science Elective	3
Total:	15

THIRD SEMESTER

Business Administration 101 or 104 (Introduction to Business or Sales and Customer Service)	3
Computer Technology 246 (Python Programming II)	3
Computer Technology 234 (Computer Science Programming I)	4
Science Elective	3
Total:	13

FOURTH SEMESTER

Computer Technology 225 (Introduction to Networking)	3
Computer Technology 229 (Database Design and Implementation)	3
Computer Technology 236 (Web Programming)	3
Computer Technology 238 (Computer Science Programming II)	4
Speech 101 (Speech Communication)	3
Total:	16
Total Credit Hours:	60

**Computer Technology 240 (Field Placement) can be used as a computer technology elective or substituted for any required 200-level computer technology course in the programming area of concentration.*

NOTE: All courses specifically identified by course number are graduation requirements for this program.