

Computer Programming AAS

Associate of Applied Science Degree

Program Director: Cheryl Simpson

Program Faculty: Steven Robinett

This degree prepares students for employment as a computer programmer; developing web, desktop and enterprise applications.

Outcomes

Graduates are prepared to:

- Understand the fundamentals of computer programming and data structures.
- Understand the languages for web and enterprise applications such as Java, Python, PHP, and JavaScript.
- Understand data modeling, database design, and structured query language (SQL).
- Have proficiency in web server administration and application development environments.
- Understand the software life-cycle, classical and current methodologies and best practices.

Estimated Cost

Estimated Resident Program Cost*

Tuition and Fees	\$7,064
Application Fee	\$30
Lab/Course Fees	\$70
Books/Supplies	\$1,166
Total	\$8,330

*

Fall 2022 MUS Student Health Insurance Premiums may be changing. Please check the Health Insurance website (<http://students.gfcmsu.edu/insurance.html>) and/or Student Central for confirmed premium rates. Students will be charged an additional fee of \$21 per credit for online/hybrid courses.

Program Requirements

Many students need preliminary math and writing courses before enrolling in the program requirements. These courses may increase the total number

of program credits. Students should review their math and writing placement before planning out their full program schedules.

Course	Title	Credits	Grade/Sem
First Year			
Fall			
CSCI 100	Introduction to Programming *+	3	_____
CSCI 105	Computer Fluency +	3	_____
CSCI 181	Web Design and Programming +	4	_____
M 121	College Algebra **+	3	_____
One of the following:			
WRIT 101	College Writing I **+	3	_____
WRIT 121	Intro to Technical Writing **+	3	_____
Credits		16	
Spring			
BGEN 105	Introduction to Business +	3	_____
CAPP 156	MS Excel *+	3	_____
CSCI 111	Programming with Java I *+*	3	_____
CSCI 240	Databases and SQL *+	3	_____
ITS 210	Network Operating System - Desktop *+	3	_____
Credits		15	
Second Year			
Fall			
COMX 115	Introduction to Interpersonal Communication +	3	_____
CSCI 132	Basic Data Structures and Algorithms *+	4	_____
CSCI 211	Client Side Programming *+	3	_____
STAT 216	Introduction to Statistics **+	4	_____
Credits		14	
Spring			
CSCI 213	Web Programming Techniques *+	3	_____
CSCI 223	Software Development *+	3	_____
CSCI 232	Intermediate Data Structures and Algorithms *+	3	_____
ITS 224	Introduction To Linux *+	4	_____
Select one of the following:			
CSCI 298	Internship *+	3	_____
CSCI 299	Programming Capstone *+	3	_____
Credits		16	
Total Credits		61	

*

Indicates prerequisites needed.

**

Placement in course(s) is determined by placement assessment.

+

A grade of C- or above is required for graduation.