

# Computer Programming AAS

## Overview

### Associate of Applied Science Degree

Program Director: Chris Mee

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	\$6,835
Application Fee	\$30
Books/Supplies	\$1,869
Total	\$8,735

\* **Fall 2018 MUS Student Health Insurance Premiums will be changing. Please check the Health Insurance website (<http://students.gfcmu.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.

## GFC MSU Additional Graduation Requirement

Course	Title	Credits	Grade/Sem
COLS 103	Becoming a Successful Student +	1	_____

Course	Title	Credits	Grade/Sem
<b>First Year</b>			
<b>Fall</b>			

CSCI 100	Intro to Programming +	3	_____
CSCI 105	Computer Fluency +	3	_____
M 121	College Algebra **+	3	_____
MART 231	Interactive Web I +	4	_____

One of the following:

WRIT 101	College Writing I **+	3	_____
WRIT 121	Intro to Technical Writing **+	3	_____

Credits	16
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### 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 OS - Desktop *+	3	_____

Credits	15
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### Second Year

#### Fall

COMX 115	Intro to Interpersonal Communc +	3	_____
CSCI 132	Basic Data Structures and Algorithms **+	4	_____
CSCI 211	Client Side Programming *+	3	_____
STAT 216	Introduction to Statistics **+	4	_____

Credits	14
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#### Spring

CSCI 213	Web Programming Techniques *+	3	_____
CSCI 214	Server-Side Web Programming & Administration *+	3	_____
CSCI 223	Software Development *+	3	_____
CSCI 299	Programming Capstone *+	3	_____
ITS 224	Introduction To Linux *+	4	_____

Credits	16
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Total Credits	61
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**Total Program Credits: 61-62**

\* Indicates prerequisites needed.

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

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