



## Business Division

2020-2021

The associate of applied science degree with specialization in app development is designed to train students in Web and mobile app development.

### Transfer Information

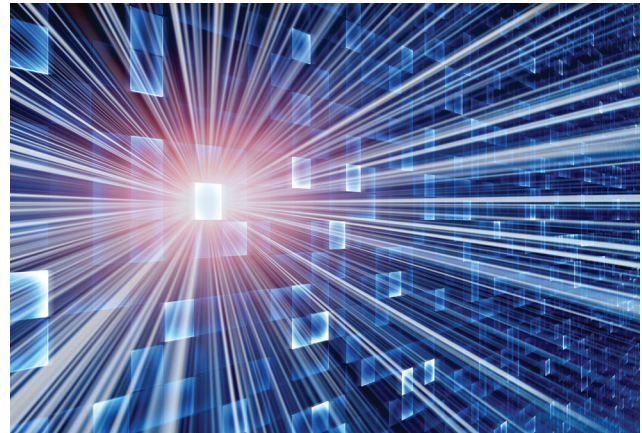
For information regarding transfer opportunities for this, or any program, please visit the Transfer section of the MCCC website.

**Note:** The following codes identify courses that satisfy MCCC's General Education Requirements:

- (C1) GE Natural Sciences Competency
- (C2) GE Mathematics Competency
- (C3) GE Writing Competency
- (C4) GE Computer Literacy Competency
- (C5) GE Human Experience Competency
- (C6) GE Social Systems Competency

Required General Education Courses	Credits
	<b>19-20</b>
C1 Natural Science Competency . . . . .	4
C2 Mathematics Competency . . . . .	3 or 4
C3 ENGL 151 (English Composition I) . . . . .	3
C4 CIS 130 (Introduction to Computer Information Systems) . . . . .	3
C5 Expressions of the Human Experience Competency . . . . .	3
C6 Social Systems Competency . . . . .	3

See the General Education Requirements on the MCCC website for a list of courses that satisfy the General Education Learning Competencies.



Required Core Courses	Credits
	<b>29</b>
CIS 112 (Database Software) . . . . .	3
CIS 130 (Introduction to Computer Information Systems) . . . . .	C4
CIS 150 (Computer Science I) . . . . .	4
CIS 153 (Desktop App Development) . . . . .	3
CIS 183 (Mobile App Development) . . . . .	4
CIS 184 (Photoshop Graphics) . . . . .	3
CIS 209 (Network Concepts) . . . . .	3
CIS 212 (Full Stack Development) . . . . .	3
IAS 103 (Information Security Principles) . . . . .	3

<b>Additional Required CIS or IAS Courses</b>	<b>3</b>
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<b>General Elective Courses</b>	<b>11-12</b>
<i>(As required to complete 60 hours)</i>	

<b>Total Degree Requirements</b>	<b>60 credits</b>
<b>Total Degree Cost</b>	<b>61 minimum billable contact hours</b>



## Certificate Program: App Development

This certificate program focuses on Web and mobile app development.

Required Courses	Credits
CIS 112 (Database Software) . . . . .	3
CIS 130 (Introduction to Computer Information Systems) . . .	3
CIS 150 (Computer Science I) . . . . .	4
CIS 153 (Desktop App Development) . . . . .	3
CIS 183 (Mobile App Development) . . . . .	4
CIS 184 (Photoshop Graphics) . . . . .	3
CIS 209 (Network Concepts) . . . . .	3
CIS 212 (Full Stack Development) . . . . .	3
IAS 103 (Information Security Principles) . . . . .	3

<b>Total Certificate Requirements</b>	<b>29 credits</b>
<b>Total Certificate Cost</b>	<b>29 minimum billable contact hours</b>



Information contained within this document is subject to change. This program sheet may not be considered as an agreement or contract.

Monroe County Community College is an equal opportunity institution and adheres to a policy that no qualified person shall be discriminated against because of race, color, religion, national origin or ancestry, age, gender, marital status, disability, genetic information, sexual orientation, gender identity/expression, height, weight or veteran's status in any program or activity for which it is responsible. If you have a disability and need special accommodations, please contact the Student Success Center (734.384.4167) at least 10 business days prior to the first class session to begin the accommodation process.

The college's Equal Opportunity Officer and Title IX and Section 504/ADA Coordinator and Compliance Officer for discrimination and sexual harassment is the Director of Human Resources,  
Monroe County Community College, 1555 South Raisinville Road, Monroe, Michigan 48161, 734.384.4245.

Monroe County Community College is accredited by the Higher Learning Commission, [www.hlcommission.org](http://www.hlcommission.org), 800.621.7440.

### Main Campus

1555 South Raisinville Road  
Monroe, Michigan 48161  
734-242-7300 / 1-877-YES-MCCC

### Whitman Center

7777 Lewis Avenue  
Temperance, Michigan 48182  
734-847-0559



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COMMUNITY COLLEGE**

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**Admissions: 734-384-4104**