

# COMPUTER INFORMATION SYSTEMS APP DEVELOPMENT

2018 – 2019 • Business Division

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

### Career Opportunities

- Entry-level Web and mobile programming
- Entry-level Web database programming

### Transfer Information

For information regarding transfer opportunities for this, or any program, please go to <http://www.monroeccc.edu/academicadv-transfer/transindex.htm>

**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

<b>Required General Education Courses</b>	<b>Credits 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 in the college catalog for a list of courses that satisfy the General Education Learning Competencies.



<b>Required Core Courses</b>	<b>Credits 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 Programming) . . . . .	3
CIS 155 (Database Management Systems) . . . . .	3
CIS 175 (Android Programming) . . . . .	3
CIS 177 (Markup Languages) . . . . .	4
CIS 179 (Web Script Programming) . . . . .	3
CIS 272 (Database Web Development) . . . . .	3

<b>Additional Required CIS Courses</b>	<b>3</b>
<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.

<b>Required Courses</b>	<b>Credits</b>
CIS 112 (Database Software) .....	3
CIS 130 (Introduction to Computer Information Systems) ..	3
CIS 150 (Computer Science I) .....	4
CIS 153 (Desktop App Programming) .....	3
CIS 155 (Database Management Systems) .....	3
CIS 175 (Android Programming) .....	3
CIS 177 (Markup Languages) .....	4
CIS 179 (Web Script Programming) .....	3
CIS 272 (Database Web Development) .....	3

**Total Certificate Requirements**                      **29 credits**  
**Total Certificate Cost**                                **29 minimum billable contact hours**

**GAINFUL EMPLOYMENT INFORMATION—CERTIFICATE**  
 Gainful employment information for the app development certificate is available on our website at [http://www.monroecc.edu/consumer/gainfulemp/APPDEV\\_CERT%20GE%20Disclosure%20Template%20\(2018\)%20-%20Corrected%20CIP%20on%202018-03-28/11.0201-Gedt.html](http://www.monroecc.edu/consumer/gainfulemp/APPDEV_CERT%20GE%20Disclosure%20Template%20(2018)%20-%20Corrected%20CIP%20on%202018-03-28/11.0201-Gedt.html)



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 Learning Assistance Laboratory at least 10 business days prior to the first class session to schedule an appointment to begin the accommodation process. The LAL phone number is 734.384.4167.

Monroe County Community College is accredited by the Higher Learning Commission.  
[www.hlcommission.org](http://www.hlcommission.org) / (800) 621-7440

Information contained within this document is subject to change. Every effort has been made to insure the information in this program sheet is accurate at the time of publication. This program sheet may not be considered as an agreement or contract.

### 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



**[www.monroecc.edu](http://www.monroecc.edu) | Admissions and Guidance Office – 734-384-4104**