

# COMPUTER INFORMATION SYSTEMS CYBERSECURITY AND INFORMATION ASSURANCE

**Business Division**

**2019-2020**

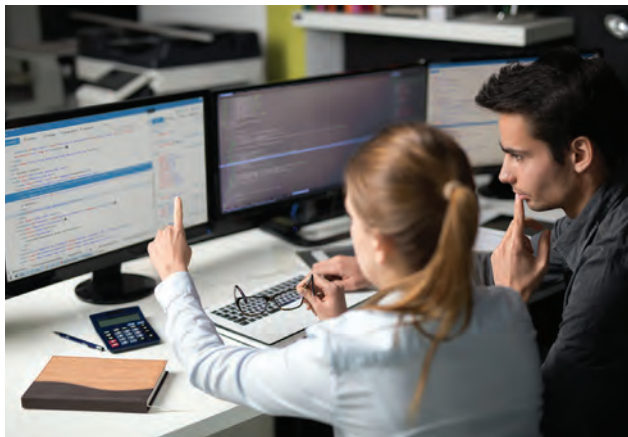
The associate of applied science degree in computer information systems with a program designation of cybersecurity and information assurance is designed to provide an opportunity for students to acquire the foundational skills needed for an entry-level position supporting corporate security operations. The term “information assurance” encompasses the scientific, technical and management disciplines required to ensure computer and network security.

**Career Opportunities**

Graduates of this program will potentially be prepared for entry-level employment as:

- Computer emergency response team operations
- Computer forensics
- Cyber crime investigation
- Cryptography
- Defensive information operations
- Information assurance systems and product acquisition
- Information assurance training education and management
- Systems/network administration and operation
- Threat and vulnerability assessment (includes risk management)
- Threat intelligence
- Web security

For more information, please visit <http://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm> on the Bureau of Labor Statistics website.



**Transfer Information**

This program was designed to transfer to institutions offering four-year degrees. There is a significant financial advantage in following this path. MCCC and Eastern Michigan University have an articulation agreement that will maximize transferability. For more information, visit [https://www.emich.edu/ccr/documents/currguidenew/monroe/monroe\\_informationassurance.pdf?v=2018-05-08T16:36:24Z](https://www.emich.edu/ccr/documents/currguidenew/monroe/monroe_informationassurance.pdf?v=2018-05-08T16:36:24Z).

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

<b>Required General Education Courses</b>	<b>Credits 19-20</b>
C1 Natural Science Competency . . . . .	4
C2 Mathematics Competency* . . . . .	3-4
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

*\*MATH 126 (Mathematics for Business) is recommended for students whose goal is to complete the AAS degree and seek employment. MATH 151 (Intermediate Algebra) or higher is recommended for students interested in transferring.*

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

	<b>Credits</b>
<b>Required CIS Core Courses</b>	<b>9</b>
CIS 130 (Introduction to Computer Information Systems) . . . C4	
CIS 208 (PC Operating Systems) . . . . .	3
CIS 209 (Network Concepts) . . . . .	3
IAS 103 (Information Security Principles). . . . .	3

<b>Cybersecurity Concentration</b>	<b>19</b>
CIS 150 (Computer Science I) . . . . .	4
CIS 228 (Linux Administration) . . . . .	3
CIS 230 (Windows Server) . . . . .	3
IAS 202 (Risk Vulnerability Analysis) . . . . .	3
IAS 210 (Advanced Networking Practices) . . . . .	3
IAS 213 (Privacy and Technology). . . . .	3

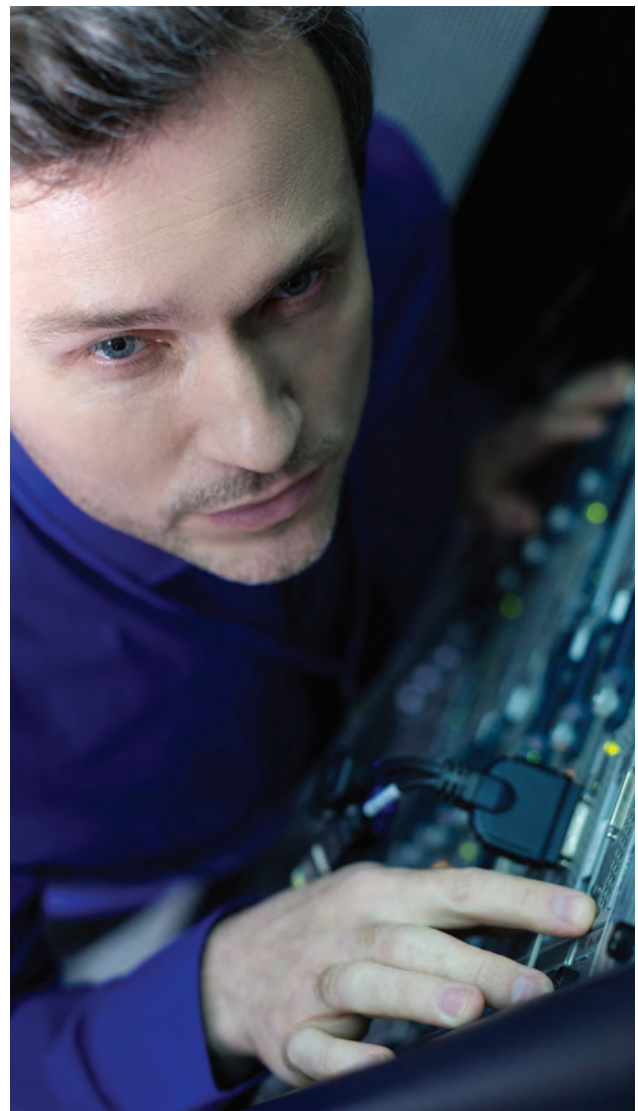
**Additional General Electives** **12-13**  
*(as required to complete 60 credits)*

**Total Degree Requirements** **60 credits**  
**Total Degree Cost** **61 minimum billable contact hours**

## Certificate Program: Cybersecurity and Information Assurance

	<b>Credits</b>
<b>Required Courses</b>	
CIS 130 (Introduction to Computer Information Systems) . . .	3
CIS 208 (PC Operating Systems) . . . . .	3
CIS 209 (Network Concepts) . . . . .	3
CIS 230 (Windows Server) . . . . .	3
IAS 103 (Information Security Principles). . . . .	3
IAS 202 (Risk Vulnerability Analysis) . . . . .	3
IAS 210 (Advanced Networking Practices) . . . . .	3
IAS 213 (Privacy and Technology). . . . .	3

**Total Certificate Requirements** **24 credits**



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**