

INFORMATION ASSURANCE ARTICULATION GUIDEMonroe Community College – **AAS in CIS: Cybersecurity & Information Assurance**Eastern Michigan University – **BS in Information Assurance and Cyber Defense**

| Monroe County Community College Courses: | Transfer to Eastern Michigan University as: |
|---|---|
| Michigan Transfer Agreement (MTA) Requirements (30 credits) | |
| Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the EMU General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and one writing intensive course in the major. <u>Courses listed below for the MTA will also satisfy requirements for the major at MCCC and/or EMU.</u> Students who started before Fall 2014 may continue to follow the MACRAO Agreement until the end of summer 2019. MACRAO versions of articulation guides are posted online at http://www.emich.edu/ccr/archartguide_macrao.php . For courses approved to satisfy the MTA go to the MCCC website https://www.monroeccc.edu/academicadv-transfer/michigantransferagreement.htm | |
| 1. A Course in English Composition | |
| ENGL 151 English Composition I..... 3 | University Elective 3 |
| 2. A Second Course in English Composition or Communication | |
| Choose from the approved MTA list..... 3 | University Elective 3 |
| 3. A Course in Mathematics | |
| * MATH 162 Introduction to Statistics..... 3 | STAT 170 Elementary Statistics 3 |
| 4. Two Courses in Natural Sciences from different disciplines (one lab required) | |
| Choose from the approved MTA list..... 7-8 | University Elective 7-8 |
| 5. Two Courses in Humanities from different disciplines | |
| Choose from the approved MTA list..... 6 | University Elective 6 |
| 6. Two Courses in Social Science from different disciplines | |
| Choose from the approved MTA list..... 6 | University Elective 6 |
| 7. If needed, complete additional courses in any category above to satisfy the 30 credit minimum for the MTA. | |
| <i>EMU's Perspectives on a Diverse World requirement: Complete <u>one</u> course from the following list:</i> | |
| <i>These courses will also satisfy an MTA area: <u>Natural Science:</u> BIOL 156; <u>Humanities:</u> ENGL 240, 255, 266; HUMAN 256, 257; <u>Social Sciences:</u> ANTHR 152; GEOG 152; HIST159, 173, 255, 256; POLSC 211, 252; SOC 153.</i> | |
| <i>These additional courses do not satisfy the MTA: BMGT 220; IAS 105</i> | |
| MCCC Program Requirements (35 credits) | |
| CIS 130 Intro to Computer Information Systems 3 | University Elective3 |
| * CIS 150 Computer Science I 4 | COSC 146 Applied Programming & Scripting (3)+14 |
| CIS 208 PC Operating Systems 3 | University Elective3 |
| CIS 209 Network Concepts 3 | University Elective3 |
| CIS 220 Hardware Maintenance 4 | University Elective4 |
| * CIS 228 Linux Administration 3 | IA 212 Open Systems Platform & Network Admin3 |
| * CIS 230 Windows Server..... 3 | IA 244 Administration of Computer Systems.....3 |
| ¹ * IAS 103 Information Security Principles 3 | IA 103 Information Security Overview3 |
| * IAS 202 Risk Vulnerability Analysis..... 3 | IA 202 Risk-Vulnerability Analysis.....3 |
| ¹ * IAS 210 Advanced Networking Practices 3 | IA 110 Concepts of Network & Business Technology3 |
| IAS 213 Privacy and Technology 3 | University Elective3 |
| EMU University Electives that may be Taken at MCCC or EMU (8 credits) | |
| Open electives 8 | University electives8 |
| Credits at MCCC:73 | Credits that transfer to EMU73 |

*Required for EMU's Information Assurance and Cyber Defense program. If not transferred, must be completed at EMU.

¹A grade of "B-" or higher in IAS 103 and IAS 210 (IA 103 and IA 110at EMU) is required for admission to the IA program at EMU.

Sign up with us: If you let us know you are using this articulation agreement we can stay in touch with you and provide information and advising to you while you are still at your community college. Sign up at: www.emich.edu/ccr/trackingssystem/Enter.php

INFORMATION ASSURANCE ARTICULATION GUIDEMonroe Community College – **AAS in CIS: Cybersecurity & Information Assurance**Eastern Michigan University – **BS in Information Assurance and Cyber Defense****Completion at EMU of the Information Assurance Program**

IA 103 and IA 110 (IAS 103 and IAS 210 at MCCC) must be completed with a grade of "B-" or higher for admission to the IA major and to enroll in IA 300-level courses

Major Requirements (51 credits)**Information Assurance Required Courses (45 credits)**

| | | |
|-----------------------|---|---|
| LEGL 320 | Cyber Law and Compliance | 3 |
| COSC 274 | Intro to Applied Cryptography | 3 |
| IA 150 | Networking I | 3 |
| IA 322 | Managing Security Projects | 3 |
| IA 329W | Policy Development in Info Assurance (GEWI) | 3 |
| IA 354 | Networking II | 3 |
| IA 385 | Database Management & Security | 3 |
| ¹ IA 387L4 | Co-operative Education (GELB) | 3 |
| IA 400 | Malware Analysis & Reverse Engineering | 3 |
| IA 427 | Digital Forensics I | 3 |
| IA 445 | Ethical Hacking and Offensive Security | 3 |
| IA 455 | Incident Response | 3 |
| IA 462 | Adv. Operating Systems Security & Admin | 3 |
| IA 473 | Network Forensics & Analytics | 3 |
| IA 495 | Capstone | 3 |

IA Restricted Electives (6 hours)

| | |
|---|--|
| IA 240 | Intelligence Analysis I (3) |
| IA 425 | Cyber Crime Investigation I (3) |
| IA 428 | Digital Forensics II (3) |
| IA 471 | Data and Privacy (3) |
| IA 474 | Applied Data Mining for IA (3) |
| IA 475 | Adv Topics in Information Security (3) |
| IA 476 | Enterprise Security Analytics (3) |
| Any 300-level or higher IA, COSC, or CIS course not already taken (3) | |

| | |
|-----------------------------|------------|
| Total Credits at EMU | 51 |
| Transfer Credits | 73 |
| Credits to Graduate | 124 |

¹ Satisfies EMU's Learning Beyond the Classroom requirement

NOTE: A minimum of 124 credits is required to graduate. If insufficient credits are transferred, students must take additional credits at EMU to satisfy the 124 credit minimum.

Sample sequences for completing the program:

Courses may not be offered every semester. Meet with a program advisor to plan a program of study.

FALL START**Fall semester (12 credits)**

| | |
|---|---|
| COSC 274 | 3 |
| LEGL 320 (may be taken in any semester) | 3 |
| IA 150 FW | 3 |
| IA 322 F Prereq: IA 202 | 3 |

Winter semester (15 credits)

| | |
|----------------------------|---|
| IA 329W FW Prereq: IA 202 | 3 |
| IA 354 W Prereq: IA 150 | 3 |
| IA 385 FW Prereq: IA 110 | 3 |
| IA 400 FW Prereq: COSC 146 | 3 |
| IA 427 FW Prereq: IA 110 | 3 |

Fall semester (12 credits)

| | |
|------------------------------------|---|
| IA 445 FW Prereq: IA 212 & 244 | 3 |
| IA 473 FW prereq: IA 427 | 3 |
| IA 495 F Prereq: IA 329, 244 & 322 | 3 |
| IA Restricted Elective | 3 |

Winter semester (12 credits)

| | |
|---|---|
| IA 455 FW Prereq: IA 473 | 3 |
| IA 462 W Prereq: IA 212 & 244 | 3 |
| ¹ IA 387L4 FW Prereq: IA 329 & 244 | 3 |
| IA Restricted Elective | 3 |

WINTER START**Winter semester (12 credits)**

| | |
|---|---|
| COSC 274 | 3 |
| LEGL 320 (may be taken in any semester) | 3 |
| IA 150 FW | 3 |
| IA 329W FW Prereq: IA 202 | 3 |

Fall semester (12 credits)

| | |
|----------------------------|---|
| IA 322 F Prereq: IA 202 | 3 |
| IA 385 FW Prereq: IA 110 | 3 |
| IA 400 FW Prereq: COSC 146 | 3 |
| IA 427 FW Prereq: IA 110 | 3 |

Winter semester (12 credits)

| | |
|---|---|
| IA 354 W Prereq: IA 150 | 3 |
| IA 445 FW Prereq: IA 212 & 244 | 3 |
| IA 462 W Prereq: IA 212 & 244 | 3 |
| IA 473 FW prereq: IA 427 | 3 |
| One Cryptology course (advisor approval required) | 3 |

Fall semester (15 credits)

| | |
|---|---|
| IA 455 FW Prereq: IA 473 | 3 |
| IA 495 F Prereq: IA 329, 244 & 322 | 3 |
| ¹ IA 387L4 FW Prereq: IA 329 & 244 | 3 |
| IA Restricted Electives | 6 |

INFORMATION ASSURANCE ARTICULATION GUIDE

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Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both MCCC and EMU agree to accept transferable courses from each other and from other regionally accredited colleges. MCCC courses indicated with an * are required for EMU's Information Assurance and Cyber Defense program. Substitutions for these courses must be approved by the EMU program coordinator.
2. Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one "Perspectives on a Diverse World" course, one "Learning Beyond the Classroom" experience, and a "Writing Intensive" course in the major. The Perspectives on a Diverse World requirement may be transferred to EMU. *To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the "MTA Satisfied" endorsement sent to EMU's Admissions Office. Students who do not have "MTA Satisfied" on their community college transcript, will be required to satisfy EMU's general education requirements as applied to transfer students. The MTA may be completed after admission to EMU, however, students should inform their advisors or they may be advised to complete additional courses for the general education program. Students who enrolled in college prior to fall semester 2014 will have until the end of summer semester 2019 to complete the MACRAO agreement. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.*
3. A grade of "C" or better (2.0 on a 4.0 scale) is required for courses to transfer to either institution.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 45 credit hours must be completed at the four-year college level, with at least 30 credit hours at EMU, 15 hours of which must be in program requirements at the 300-level or above. Of the last 30 hours completed before graduation, a minimum of 10 hours must be in courses offered by EMU. A minimum of 124 credit hours, in EMU courses or accepted in transfer, is required for graduation.
5. Students must satisfy all admission requirements at the time of admission to EMU
 - a. Completion of IA 103 and IA 110 (IAS 103 and IAS 210 at MCCC) with a grade of "B-" or higher
 - b. Submit transcripts of all colleges attended to cot-isac@atari.emich.edu by Oct. 1, Feb. 1, or July 1
 - c. Attend a mandatory meeting with an IA/CD faculty member or designated COT advisor. Student will be contacted to schedule an appointment after receipt of application. Students may enroll in two IA 300-level courses in the semester they apply to the program.
 - d. Students must maintain a minimum GPA of 2.5
6. Students are encouraged to meet with the EMU Information Assurance advisor before completing an admission application to EMU. To facilitate advising and the evaluation of transcripts, sign up for this articulation agreement using the link www.emich.edu/ccr/trackingssystem/Enter.php, and bring a copy of this guide to all advising sessions.

Effective Dates: September 1, 2017 until August 31, 2020

This is a renewal of an agreement created in January 2013. Students who began this program prior to the new effective date have the option of changing to this guide or may follow the guide they started under for up to seven years. If this agreement is not renewed at the end of the effective period, students who already began the program at MCCC will have an additional three years to be admitted to EMU under the terms of the agreement.

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