

**INFORMATION ASSURANCE & CYBER DEFENSE ARTICULATION GUIDE**

Mott Community College – AAS in Computer Networking and Cybersecurity

Eastern Michigan University – BS in Information Assurance and Cyber Defense

**Mott Community College Courses:****Eastern Michigan University Courses****Michigan Transfer Agreement (MTA) Requirements (30 credits)**

Students with an 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. Courses listed below for the MTA also satisfy major requirements at EMU and or MCC. For courses approved to satisfy the MTA go to [MCC's website](#). Students without an MTA or MACRO endorsement on their transcript must complete EMU's general education program.

**1. A Course in English Composition**

ENGL 101 English Composition I.....3      WRTG 120 Composition I.....3

**2. A Second Course in English Composition or a Course in Communication**

ENGL 102 English Composition II.....3      WRTG 121 Composition II.....3

**3. A Course in Mathematics**

\*MATH 150 Probability and Statistics.....4      STAT 170 Elementary Statistics (3)+1.....4

**4. Two Courses in Natural Sciences from Different Disciplines (one lab required)**

Choose from the approved MTA list.....7-8      University Electives .....7-8

**5. Two Courses in Humanities or Fine Arts from Different Disciplines**

COMM 131 Fundamentals of Public Speaking .....3      CTAC 124 Foundations of Speech Communication .....3

PHIL 190 Introduction to Logic .....3      PHIL 130 University Elective.....3

**6. Two Courses in Social Sciences from Different Disciplines**

Choose two from the approved MTA list .....6      University Electives .....6

**If needed, complete additional credits in any of the above categories to meet the 30 credit minimum for the MTA.****EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:**

**These courses also satisfy an MTA area:** **Natural Science:** BIOL 120; **Humanities:** ART 116; ENGL 220, 223, 235; MUS 183; **Social Sciences:** ANTH 200, 211; GEOG 142, 145; HIST 152, 213, 255, 257, 263, 266; PSCN 275; SOCY 294

**These courses apply, but do not satisfy the MTA:** INTL 150; SPAN 298

**MCC AAS in Computer Networking and Cybersecurity Requirements (48 credits)**

COMC 115 A+ Core Hardware Components.....3      CET 000 University Elective .....3

COMC 125 A+ Operating System Technologies .....3      ISAC 000 University Elective .....3

COMI 169 Supporting End Users.....3      IA 000 University Elective .....3

\*1 COMN 120 Network Essentials .....3      IT 110 Concepts of Network Business Technology .....3

COMN 144 Network Infrastructure Config &amp; Implementation 4      ISAC 000 University Elective .....4

COMG 153 Computers-A Practical Approach.....3      COSC 101 University Elective .....3

\*COMN 154 Routing Protocol/Networking Fundamentals.....3      IT 150 Networking I.....3

COMN 164 Client and Server Network Administration .....4      ISAC 000 University Elective .....4

COMN 174 Advanced Network Administration .....3      IA 244 Administration of Computer Systems .....3

\*1 COMN 184 Information Security in a Digital Age.....3      IA 103 Information Security Overview.....3

COMN 224 Network Security Practices .....3      ISAC 000 University Elective .....3

\*COMN 274 Cybersecurity and Ethical Hacking .....3      ISAC 000 University Elective sub for restricted elective ....3

COMN 282 Computer Networking Capstone.....3      CMT 000 University Elective .....3

\*COMS 130 Introduction to Linux Administration.....3      IA 212 Open Systems Platform and Network Admin ....3

\*COMS 170 Introduction to Programming.....4      COSC 000 sub for COSC 146 .....4**Credits at MCC: .....78      Credits that transfer to EMU ..... 78**

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

<sup>1</sup> A grade of "B-" or above in IA 103 and IT 110 is required for program admission.

**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.**

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**Completion of the BS in Information Assurance and Cyber Defense at EMU****Major Requirements (42 credits)**

COSC 274	Introduction to Applied Cryptography.....	3
LEGL 320	Cyber Law and Compliance.....	3
IA 202L4	Risk-Vulnerability Analysis.....	3
IA 322	Managing Security Projects .....	3
IA 329W	Policy Development in Info Assurance .....	3
IA 385	Database & Web Application Security .....	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 and Analytics.....	3
IA 495	Capstone .....	3
IT 254	Networking II.....	3

**IA Restricted Electives (18 hours)**

IA 240	Intelligence Analysis (3)
<sup>2</sup> IA 387L4	Co-operative Education (GELB) (3)
IA 425	Cyber Crime Investigation I (3)
IA 428	Digital Forensics II (3)
IA 440	Intelligence Analysis I (3)
IA 471	Data Security 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)
IT 145	Task Automation for IT Admins (3)
IT 219	Introduction to Human-Computer Interaction (3)
IT 221	Web Server Administration and Development (3)
IT 256	Managing Virtualization and Cloud Computing (3)
IT 375	Wireless Networks Administration (3)
ISAC 317	IoT and Embedded Systems Security (3)
ISAC 417	Modern Vehicle Tech & Cyber Security (3)
Any IA, CIS, or COSC 300-level or higher (3)	

**LBC Requirement**

One Learning beyond the Classroom (LBC) course or noncredit experience must be completed at EMU. Consult advisor for options.

**Transfer Credits: ..... 78****Minimum Credits at EMU:..... 60****Minimum Credits to Graduate:..... 124****Admissions Requirements & Application Process**

- Students must complete IA 103 and IT 110 with a grade of a "B-" or above.
- Students should inform their advisor of their decision to join the IACD program in person or by email.
- Students will be notified by letter and/or through an email after a decision is made, no later than the start of the semester following the application.

**Requirements for Graduation**

- Students cannot apply courses at the 300 level or above to this program if not taken at EMU.
- All students must take at least 45 credits at the 300 level or above in the IACD program.

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**Additional Information:**

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both institutions agree to accept transferrable courses from each other and from other regionally accredited institutions. MCC courses indicated with an \* are required for EMU's BS in Information Assurance and Cyber Defense. 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. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.*
3. Only courses with a grade of "C" or better (2.0 on a 4.0 scale) will be accepted for 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 a minimum of 30 hours in EMU courses, with at least 15 hours in the program at the 300-level or above. Of the last 30 hours completed before graduating, a minimum of 10 credit hours must be in courses offered by EMU. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation.
5. Students must satisfy all admission requirements at the time of application for admission to EMU:
  - Completion of IA 103 and IT 110 with a grade of "B-" or above
  - Inform advisor of the decision to join the IACD program in person or by email
  - Students will be notified by letter and/or through email after a decision has been made.
6. Students are encouraged to contact EMU's BS in Information Assurance and Cyber Defense program coordinator before applying to EMU. To facilitate advising and the evaluation of transcripts, sign up for this articulation agreement and bring a copy of this articulation guide to all advising sessions.

**Effective Dates: September 1, 2019 until August 31, 2022.**

This agreement is consistent with the 2019-2020 catalog. Students have until Summer 2027 to graduate from Eastern Michigan University following this agreement. In the event that a student does not complete the program within seven years, they may be required to have their credits reevaluated using the requirements of the current articulation guide.

**Contacts:****Mott Community College****Eastern Michigan University**

College of Engineering &amp; Technology Student Services

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