

IACD ARTICULATION AGREEMENT GUIDEMacomb Community College – **AAS in Network Security Professional (Cybersecurity)**Eastern Michigan University – **BS in Information Assurance and Cyber Defense****Macomb Community College Courses:****Eastern Michigan University Courses:****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 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 program requirements at EMU and/or MCC. For MCC approved MTA courses go to Macomb's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. A course in English Composition

ENGL 1180 or 12103-4 WRTG 120 General Transfer Credit.....3-4

2. A course in English Composition or Communication

Choose one from the approved MTA list.....3 General Transfer Credit.....3

3. A course in Mathematics

* MATH 1340 Statistics.....4 STAT 170 Elementary Statistics (3)+1.....4

4. Two courses in Natural Sciences from different disciplines (one lab required)

Choose one from the approved MTA list.....7-8 General Transfer Credit.....7-8

5. Two courses in Humanities and Fine Arts from different disciplines

Choose two from the approved MTA list6 General Transfer Credit6

6. Two courses in Social Sciences from different disciplines

Choose two from the approved MTA list6 General Transfer Credit6

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: **Communication:** SPCH 2300; **Natural Science:** BIOL 1310; ENVS 1050; **Humanities:** ENGL 2740, 2800, 2810; HUMN 2100; INTL 2000, 2300, 2800; MUSC 1040, **Social Sciences:** ANTH 1000, 1100; ECON 2110; GEOG 2000; HIST 1260, 1700, 2375, 2520, 2650; POLS 1600; or SOCY 2550. **These courses apply, but do not satisfy the MTA:** BUSN 2100

MCC IT Networking Specialist (Cybersecurity) Program Requirements (48 credits)

BCOM 2050 Business Communications4	MGMT 202 General Transfer Credit (3)+1.....4
*ITCC 1000 Cloud Administrator I3	ISAC 000 <u>sub for Restricted Elective</u>3
ITCS 1010 Computer & Information Processing Principles ..4	IS 215 General Transfer Credit (3)+1.....4
*ITCS 1140 Introduction to Program Design & Development.4	IT 145 Task Automation for IT Admins (3)+14
2* ITIA 1200 Introduction to Information Systems Security3	IA 103 Information Security Overview3
*ITIA 1310 Certified Ethical Hacker3	ISAC 000 <u>sub for Restricted Elective</u>3
*ITIA 2310 Info Security Policies & Risk Management (3) and	
*ITIA 2800 Penetration Testing & Analysis (3).....6	IA 202 Risk-Vulnerability Analysis (3)+36
2* ITNT 1500 Principles of Networking4	IT 110 Conc of Network & Business Tech (3)+14
*ITNT 2130 Network Design 13	ISAC 000 <u>sub for Restricted Elective</u>3
*ITOS 1410 Windows Server Administration 1 (4) and	
*ITOS 1510 Windows Server Administration 2 (4).....8	IA 244 Administration of Computer Systems (3)+18
1ITOS 1710 Introduction to Linux3	ISAC 000 General Transfer Credit (see footnote 1).....3
ITWP 1000 Introduction to Web Programming3	IS 247 General Transfer Credit3

EMU Requirements and Electives that May be Taken at MCC or EMU (7-11 credits)

*ITNC 1050 Cisco Networking 1 (CCNA)4	IT 150 Networking I (3)+14
3* ITNC 1150 Cisco Networking 2 (CCNA)4	IT 254 Networking II (3)+1 <u>sub for Restricted Elective</u> ...4
*ITOS 1720 Linux Server Administration.....3	IA 212 Open Systems Platform & Network Admin3

Credits at MCC:.....85-89 Credits that transfer to EMU..... 85-89

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

1 Students who complete ITOS 1710 and 1720 and who are certified as LPIC1 will receive credit for IA 212 and receive three credits to apply toward the restricted electives requirement at EMU.

2 Must complete ITIA 1200 (IA 103) and ITNT 1500 (IT 110) with a grade of B- or higher, for admission to the IACD program.

3 Students who have completed ITCC 1000, ITIA 1310, ITNT 2130, ITOS 1710 and 1720 with LPIC1 certification will not need this course.

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

- Completion or transfer credit of IA 103 and IT 110 with a grade of B- or above is required for admission.
- All students must take at least 45 credits at the 300 level or above in the IA/CD program.
- Students must maintain a minimum EMU GPA of 2.5.

Major Requirements (48 credits)

Program Requirements (42 credits)

IA 322	Managing Security Projects	3
¹ IA 329W	Policy Development in Info Assurance	3
IA 385	Database & Web Application Security	3
IA 400	Malware Analysis and 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
ISAC 240	Intro to Cryptanalysis and Generic Attacks..	3
ISAC 350	Network Security	3
ISAC 375	Software Assurance	3
LEGL 320	Cyber Law and Compliance	3

Restricted Electives (6 credits)

Must choose 300 level or higher restricted electives to meet the 45 credits at the 300 level or higher required for this program.

- ² IA 387L4 Cooperative Education (3)
- IA 425 Cyber Crime Investigation (3)
- IA 428 Digital Forensics II (3)
- IA 471 Data Security and Privacy (3)
- IA 474 Applied Data Mining for Information Assurance (3)
- IA 475 Advanced Topics in Information Security (3)
- IA 476 Enterprise Security Analytics (3)
- IT 319 Introduction to Human Computer Interaction (3)
- IT 356 Managing Virtualization and Cloud Computing (3)
- IT 375 Wireless Networks Administration (3)
- ISAC 317 IoT and Embedded Systems Security (3)
- ISAC 321 Web Server Administration & Development (3)
- ISAC 417 Modern Vehicle Tech & Cyber Security (3)
- Any 300 level or above IA, IT, COSC, or CIS course not already taken (3)

LBC Requirement

Students must complete one Learning Beyond the Classroom course or noncredit experience offered by EMU. Consult your advisor for options.

Credits at EMU:	48
Transfer Credits	85-89
Minimum Credits to Graduate:	124

¹ Fulfills EMU's Writing Intensive Requirement

² Fulfills EMU's Learning Beyond the Classroom Requirement

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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 30 credit hours must be completed 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, including submitting transcripts from all previously attended colleges. MCC students will receive equal consideration with other students for course registration and financial aid.
6. Students must meet the following requirement to be admitted to the ISAC program:
 - Completion or transfer credit of IA 103 and IT 110 with a grade of B- or above.
7. Graduation Requirements:
 - Students can not 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
 - Students must maintain a minimum cumulative EMU GPA of 2.5.
8. 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 Date: September 1, 2020 until August 31, 2023.

This is a renewal of an agreement made in September 2011. This agreement is consistent with the 2020-2021 catalog. Students have until summer 2028 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:

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 Counseling/Academic Advising
 586.445.7999, askanadvisor@macomb.edu

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 College of Engineering & Technology Student Services
 734.487.8659, cet_advising@emich.edu