ARTICULATION AGREEMENT GUIDE

Oakland Community College – **AAS in Computer Information Systems - Cybersecurity Option**
Eastern Michigan University – **BS in Cybersecurity**

Oakland 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 OCC. For OCC approved MTA courses go to OCC's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. **A course in English Composition**

ENG 1510 Composition I...3	WRTG 120	General Transfer Credit 3

2. **A course in English Composition or Communication**

COM 1290 Interpersonal Communication 3	COMM 227	General Transfer Credit 3

3. **A course in Mathematics**

* MAT 1580 Statistics (in place of MAT 1150) 4	STAT 170	Elementary Statistics (3)+1 4

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

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

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

PHI 1710 Introduction to Informal Logic.................................3	PHIL 120	General Transfer Credit 3
Choose one from the approved MTA list.................................3		General Transfer Credit…………………………………3

6. **Two courses in Social Sciences from different disciplines**

Choose two from the approved MTA list 6	General Transfer Credit…………………………………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 <u>one</u> course from the following list:
  These courses also satisfy an MTA area: **Communication**: COM 2290; **Natural Science**: BIO 1500; **Humanities:** ENG 1610, 2540, 2570; HIS 1520; MUS 1585; **Social Sciences:** ANT 1540; GEO 1520; HIS 1520, 1550, 2620; POL 2530, 2610; SOC 2620
  These courses apply, but do <u>not</u> satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2560

OCC Program Requirements (46 credits)

CIS 1200 Introduction to Database Systems 4	BMMT 000	General Transfer Credit 4
¹* CIS 1300 Networking Concepts...4	IT 110	Concepts of Network Business Tech (3)+1 4
CIS 1550 Introduction to Secure Programming 3	COSC 146	General Transfer Credit 3
¹* CIS 1600 Fundamentals of Cybersecurity 4	IA 103	Information Security Overview (3)+1 4
CIS 1610 Data Security 4	COSC 000	General Transfer Credit 4
*CIS 1620 Introduction to Cryptography...................................4	ISAC 240	Intro to Cryptanalysis and Generic Attacks (3)+14
*CIS 1630 Security Policy, Legal, Ethics, and Compliance......3	ISAC 000	<u>sub for LEGL 320</u>...3
*CIS 2111 Systems Analysis and Design (UML).....................4	ISAC 000	<u>sub for Restricted Elective</u> 4
*CIS 2434 Introduction to Linux and Unix Administration.........3	IA 212	Open Source Platform & Network Ad 3
*CIS 2535 Microsoft Windows Server Administration 3	IA 244	Administration of Comp Systems........................3
*CIS 2838 System Security 4	IA 202	Risk-Vulnerability Analysis (3)+1 4
*CIS 2845 Computer Forensics...4	ISAC 000	<u>sub for Restricted Elective</u> 4
PER 1300 Stress Mgmt: Neuromuscular Relaxation..............2	PHED 000	General Transfer Credit....................................2

EMU Requirements and Electives that May be Taken at OCC or EMU (8 credits)

*CIS 1310 CCNA Studies II...4	IT 150	Networking I (3)+1 4
*CIS 2131 Python Programming 4	IT 145	Task Automation for IT Admins (3)+1 4

Credits at OCC: 84	**Credits that transfer to EMU...................... 84**

Required for EMU's BS in Information Assurance and Cyber Defense program. If not transferred, must be completed at EMU.
1 Completion or transfer credit of IA 103 (CIS 1600) and IT 110 (CIS 1300) with a grade of B- or above is required for admission.

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<u>Completion of the BS in Information Assurance and Cyber Defense</u>

- Completion or transfer credit of IA 103 (CIS 1600) and IT 110 (CIS 1300) 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 (39 credits)

EECE 262 Engineering Algorithmic Constructions 3
IA 322   Managing Security Projects 3
[1] IA 329W   Policy Development in Information Assurance......3
IA 385   Database & Web Application Security..................3
IA 400   Malware Analysis and Reverse Engineering.........3
IA 427   Digital Forensics...3
IA 445   Ethical Hacking and Offensive Security 3
IA 455   Incident Response 3
IA 462   Adv Operating Systems Security and Admin 3
IA 473   Network Forensics and Analytics 3
IA 495   Capstone...3
ISAC 350 Network Security 3
ISAC 375 Software Assurance 3

Restricted Electives (9 credits)

Must complete at least 9 credit in this area at the 300+ level to meet 45 credits in the major at the 300+level at EMU

IA 240   Intelligence Analysis I (3)
[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 Info Assurance (3)
IA 475   Advanced Topics in Information Security (3)
IA 476   Enterprise Security Analytics (3)
ISAC 317   IoT and Embedded Systems Security (3)
ISAC 417   Modern Vehicle Technology & Cyber Security (3)
IT 319   Introduction to Human-Computer Interaction (3)
IT 321   Web Server Administration and Development (3)
IT 356   Managing Virtualization and Cloud Computing (3)
IT 375   Wireless Networks Administration (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 84
Total Credits:...124

1 Fulfills EMU's Writing Intensive in the Major 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. OCC courses indicated with an * are required for EMU's BS in Cybersecurity. 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 48 credit hours must be completed in EMU courses, with at least 45 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 120 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. OCC 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 IACD program:
   - Completion or transfer credit of IA 103 (CIS 1600) and IT 110 (CIS 1300) 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 Undergraduate Admissions before applying to EMU. To facilitate advising and the evaluation of transcripts, bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2021 until August 31, 2024.
This is an updated guide of a renewal of an agreement made in September 2009, extended in 2012 and renewed in September 2017. This agreement guide is consistent with the 2023-2024 catalog. Students have until summer 2031 to graduate from Eastern Michigan University following this agreement guide. 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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Eastern Michigan University
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Schedule an appointment