ARCHIVED INFORMATION ASSURANCE & CYBER DEFENSE
ARTICULATION AGREEMENT GUIDE

Oakland Community College – **CIS – Cybersecurity Certificate (CIS.CYS.CT)**
Eastern Michigan University – **BS in Information Assurance and Cyber Defense**

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 OCC and/or EMU. For courses approved by OCC to satisfy the MTA go to: http://catalog.oaklandcc.edu/graduation-requirements/michigan-transfer-agreement/ .

Oakland Community College Courses: | **Transfer to Eastern Michigan University as:**

1. **A Course in English Composition**
   ENG 1510   Composition I....................................3   WRTG 120 University Elective 3
2. **A Course in English Composition or Communication**
   Choose from the approved MTA list....................3   University Elective...3
3. **A Course in Mathematics**
   *MAT 1580   Statistics 4   STAT 170 Elementary Statistics (3)+1 4
4. **Two Natural Science courses from different disciplines**
   Choose from the approved MTA list 8   University Electives 8
5. **Two Humanities courses from different disciplines**
   Choose from the approved MTA list...................6   University Elective...6
6. **Two Social Science courses from different disciplines**
   Choose from the approved MTA list 6   University Electives 6

7.   If needed, complete additional courses from 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**: COM 2290; **Natural Science**: BIO 1500; **Humanities:** ENG 1610, 2530, 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 not satisfy the MTA: BUS 2150; PSY 2730; SOC 2530, 2560

OCC CIS – Cybersecurity Certificate (36 credits)

*[1]CIS 1300	Networking Concepts.. 4	IT 110 Conc of Network & Business Tech (3)+1 (Pr. IA 110) 4
*CIS 1550	Introduction to Secure Programming 3	COSC 146 Applied Programming & Scripting...................3
*[1]CIS 1600	Fundamentals of Cybersecurity........................ 4	IA 103 Information Assurance Overview 4
CIS 1610	Data Security 4	COSC 000 University Elective 4
*CIS 1620	Intro to Cryptography....................................... 4	COSC 274 Intro to Applied Cryptography..........................4
CIS 1630	Security Policy, Legal, Ethics and Compliance. 3	ISAC 000 University Elective 3
*CIS 2434	Intro to Linux and Unix Admin........................... 3	IA 212 Open Systems Platform & Network Admin 3
*CIS 2535	Microsoft Windows Server Administration 3	IA 244 Administration of Computer Systems.....................3
*CIS 2838	System Security.. 4	IA 202 Risk and Vulnerability Analysis 4
CIS 2845	Computer Forensics 4	ISAC 000 University Elective 4

EMU Electives that May be taken at OCC or EMU (10 credits)

Open electives (not to exceed 76 credits at OCC) 10   University Electives.. 10

Credits at OCC:.. 76   Credits that apply to EMU Program 76

Required for EMU's Information Assurance and Cyber Defense program. If not transferred, must be completed at EMU.
[1]*A grade of "B-"or higher in CIS 1300 and CIS 1600 (IA 103 and IA 110 at 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.

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Completion of the Bachelor of Science in Information Assurance & Cyber Defense

IA 103 and IT 110 (CIS 1600 and CIS 1300 at OCC) 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 (48 credits)

Information Assurance Required Courses (42 credits)

Course	Title	Cr
LEGL 320	Cyber Law and Compliance	3
IA 322	Managing Security Projects	3
IA 329W	Policy Development in Info Assurance (GEWI)	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 (was IA 430)	3
IA 495	Capstone	3
IT 150	Networking I (Previously IA 150)	3
IT 254	Networking II (Previously IA 354)	3

IA Restricted Electives (6 hours)

IA 425 Cyber Crime Investigation I (3)
IA 428 Digital Forensics II (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)
Any IA, CIS, or COSC 300-level or higher (3)

Total Credits at EMU	**48**
Transfer Credits	**76**
Credits to Graduate	**124**

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 (9 credits)
LEGL 320	(may be taken in any semester)	3
IT 150	FW	3
IA 329W	FW Prereq: IA 202	3

Winter semester (12 credits)
IT 254	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 322	F Prereq: IA 202	3
IA 445	FW Prereq: IA 212 & 244	3
IA 473	FW prereq: IA 427	3
IA 495	F Prereq: IA 329, 244 & 322	3

Winter semester (15 credits)
[1] IA 387L4	FW Prereq: IA 329 & 244	3
IA 455	FW Prereq: IA 473	3
IA 462	W Prereq: IA 212 & 244	3
IA Restricted Electives		6

WINTER START
Winter semester (9 credits)
LEGL 320	(may be taken in any semester)	3
IT 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: IT 110	3
IA 400	FW Prereq: COSC 146	3
IA 427	FW Prereq: IT 110	3

Winter semester (12 credits)
IT 254	W Prereq: IT 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

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

[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.

September 2017

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Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both OCC and EMU agree to accept transferable courses from each other and from other regionally accredited colleges. OCC courses indicated with an * are required for EMU's Information Assurance & Cyber Defense major. 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 September 2014 will have until the end of August 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 IT 110 (CIS 1600 and CIS 1300 at OCC) with a grade of "B-" or higher
   b. Submit transcripts of all colleges attended to cot-isac@atari.emich.edu by October 1, February 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 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 made in September 2009 and extended in September 2012. 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 the agreement is not renewed at the end of the effective period, students who already began the program at OCC will have three additional years to be admitted to EMU under the terms of the agreement.

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