ARCHIVED INFORMATION ASSURANCE & CYBER DEFENSE ARTICULATION GUIDE

Washtenaw Community College– AAS in Cybersecurity
Eastern Michigan University – BS in Information Assurance and Cyber Defense

Washtenaw Community College courses:	Eastern Michigan University courses:

Michigan Transfer Agreement 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. Specific courses listed below for the MTA will also satisfy requirements at WCC and/or EMU. For courses approved to satisfy the MTA go to the WCC website at the link: http://www.wccnet.edu/services/transferresources/mta/ Students who do not have the MACRAO or MTA endorsement must complete EMU's general education program.

1. **A Course in English Composition**
   Choose from the approved MTA list...................................3-4   University Elective 3-4
2. **A Course in English Composition or Communication**
   Choose from the approved MTA list....................................3   University Elective 3
3. **A Course in Mathematics**
   *MTH 160 Basic Statistics 4   STAT 170 Elementary Statistics or (3)+1...................... 4
4. **Two Natural Science courses from different disciplines**
   Choose from the approved MTA list 7-8   University Elective 7-8
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 Elective 6

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* <u>one</u> *course from the following list:*
  These courses also satisfy an MTA area: Communication: COM 225; **Natural Science**: ENV 101, 105; **Humanities:** ART 143, 150; COM 225; DAN 180; DRA 180; ENG 181, 213, 214, 224, 242; HUM 150, 175, 221; MUS 180; **Social Science:** ANT 201; ECO 280; GEO 101; HST 109, 123, 150, 230, 235; PSY 251, 270; SOC 205. ***These courses apply, but do*** <u>***not***</u> ***satisfy the MTA:*** CCP 251

WCC Cybersecurity Requirements (46 credits)

*CIS 120	Linux/UNIX I: Fundamentals.................................3	IA 212	Open Systems Platform & Network Admin....... 3
*CPS 141	Introduction to Programming Using Python..........4	IT 145	Task Automation for IT <u>sub for COSC 146</u>....... 4
*CNT 201	Admin MS Windows Client Operating Systems....3	ISAC 000	<u>sub for Restricted Elective</u>............................... 3
[1]*CNT 206	Introduction to Networks....................................4	IT 110	Concepts of Network & Business Technology.. 4
[3]*CNT 211	Installing & Configuring Windows Server.............4	IA 244	Systems Administration.................................... 4
*CNT 216	Routing & Switching Essentials 4	IT 150	Networking I (3)+1 4
CNT 226	Enterprise Networking, Security & Automation.....4	AACR GEN	University Elective... 4
[2]CNT 290	Network Forensics...4	ISAC 000	<u>sub for Restricted Elective</u>............................... 4
[1]*CSS 200	Introduction to Network Security – Security+........4	IA 103	Information Security Overview (3)+1 4
*CSS 205	Essentials of Network Penetration Testing...........4	IA 202	Risk-Vulnerability Analysis (3)+1 4
[2]CSS 210	Network Perimeter Protection-CCNA Security 4	ISAC 000	<u>sub for Restricted Elective</u>............................... 4
CSS 225	Cybersecurity Operations – CCNA Cyber Ops.....4	ISAC 000	General Transfer Credit................................... 4

Credits at WCC: 76	**Credits that transfer to EMU 76**

* Required for EMU's BS in Information Assurance and Cyber Defense. If not transferred, must be completed at EMU.
[1] A grade of "B-"or higher in CNT 206 (IT 110) and CSS 200 (IA 103) is required for admission to the IA program at EMU.
[2] Applies toward IACD Restricted Electives at EMU.
[3] Students who complete WCC CNT 223 or CNT 224 instead of CNT 211 for this WCC requirement will need to complete IA 244 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 https://www.emich.edu/ccr/articulation-agreements/signup.php

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Completion of the BS in Information Assurance and Cyber Defense Program

Major Requirements   (51 hours)

IA 103 and IT 110 (CSS 200 and CNT 206 at WCC) must be completed with a grade of "B-" or higher for admission to the IACD major and to enroll in IA 300-level courses. A minimum of 45 credits must be taken at the 300 level or above in the IACD program.

Program Required Courses (39 hours)

LEGL 320	Cyber Law and Compliance	3
IA 322	Managing Security Projects	3
IA 329W	Policy Development in Info Assurance	3
IA 385	Database Management & 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 & Analytics	3
IA 495	Capstone	3
IT 254	Networking II	3
ISAC 240	Intro to Cryptanalysis & Generic Attacks	3

ISAC 240 should be taken in place of COSC 274. Students that completed CSS 201 at WCC with a C or higher can follow the original September 2019 agreement guide.

IA Restricted Electives (12 hours)

A maximum of 9 credits can be taken with an IA prefix, including those credits transferred in. **Must choose all courses at the 300 level or higher to meet the 45 credit minimum.**

[1] IA 387L4 Cooperative Education (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)
IT 375   Wireless Network Administration (3)
ISAC 317 IoT and Embedded Systems Security (3)
ISAC 417 Modern Vehicle Technology & Cyber Security (3)
Any IA, IT, CIS, or COSC 300-level or higher (3)

Total Credits at EMU	**51**
Transfer Credits	**76**
Credits to Graduate	**127**

[1] *Satisfies EMU's Learning beyond the Classroom requirement. If not completed, must satisfy LBC with another course or noncredit experience.*
A minimum of 120 credits is required to graduate. If insufficient credits are transferred, students must take additional credits at EMU to satisfy the 120 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 (15 credits)

LEGL 320 (may be taken in any semester)		3
IA 322	F Prereq: IT 110	3
IA 329W	FW Prereq: IT 110	3
IA Restricted Elective		3
ISAC 240	FW Prereq: IT 145	3

Winter semester (12 credits)

IT 254	W Prereq: IT 150	3
IA 385	FW Prereq: IT 110	3
IA 400	FW Prereq: COSC 146 and IA 212	3
IA 427	FW Prereq: IA 244	3

Fall semester (12 credits)

IA 473	FW Prereq: IA 212 & 427	3
IA 445	FW Prereq: IA 212 & 244	3
IA 495	FW Prereq: IA 322, 329W, 445, 473	3
IA Restricted Elective		3

Winter semester (12 credits)

IA 455	FW Prereq: IA 473	3
IA 462	W Prereq: IA 212 & 244	3
IA Restricted Elective		6

WINTER START

Winter semester (15 credits)

LEGL 320 (may be taken in any semester)		3
IA 329W	FW Prereq: IT 110	3
IT 254	W Prereq: IT 150	3
IA Restricted Elective		3
ISAC 240	FW Prereq: IT 145	3

Fall semester (12 credits)

IA 322	F Prereq: IT 110	3
IA 385	FW Prereq: IT 110	3
IA 400	FW Prereq: COSC 146 and IA 212	3
IA 427	FW Prereq: IA 244	3

Winter semester (12 credits)

IA 473	FW prereq: IA 212 & 427	3
IA 445	FW Prereq: IA 212 & 244	3
IA 462	W Prereq: IA 212 & 244	3
IA Restricted Elective		3

Fall semester (12 credits)

IA 455	FW Prereq: IA 473	3
IA 495	F Prereq: IA 322, 329W, 445, 473	3
IA Restricted Elective		6

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Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both WCC and EMU agree to accept transferable courses from each other and from other regionally accredited colleges. WCC 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. 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 120 credit hours (Fall 2022), in EMU courses or accepted in transfer, is required for graduation. The limit of 60 credit hours in one subject area will be waived, and students will be allowed up to 69 credit hours in the IA discipline.

5. Students must satisfy all admission requirements at the time of admission to EMU
   a. Completion of IA 103 and IT 110 (CSS 200 and CNT 206 at WCC) with a grade of "B-" or higher
   b. Complete all requirements listed above. Students may be enrolled in one or two of the required courses listed in the agreement during the semester they apply.
   c. The student shall inform their advisor of their decision to join the IACD program in person or by email.

6. Requirements for graduation:
   - Students must maintain a minimum GPA of 2.5
   - All students must take at least 45 credits at the 300-level or above in this program, if not taken at EMU

7. Students are encouraged to meet with the EMU Information Assurance and Cyber Defense 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 https://www.emich.edu/ccr/articulation-agreements/signup.php, and bring a copy of this guide to all advising sessions.

Effective Dates: **September 1, 2019 through 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:

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