

**ARCHIVED INFORMATION ASSURANCE & CYBER DEFENSE ARTICULATION GUIDE**

Lansing Community College – **AB in Computer Networking and Cybersecurity**  
 Eastern Michigan University – **BS in Information Assurance and Cyber Defense**

**Lansing Community College courses:****Transfer to Eastern Michigan University as:****Michigan Transfer Agreement Requirements (30 credits required)**

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 LCC. Students who do not transfer to EMU with the MTA or MACRAO must complete EMU's general education program. For LCC courses approved to satisfy the MTA go to [LCC's website](#).

**Credits from the AB in Networking and Security that apply toward the MTA (11 credits)****1. A Course in English Composition**

See courses that can be taken at LCC or EMU. If not completed at LCC, must be completed at EMU.

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

COMM 110, 120, or 130 ..... 3 University Elective ..... 3

**3. A Course in Mathematics**

\* STAT 170 Introduction to Statistics ..... 4 STAT 170 Elementary Statistics (3)+1 ..... 4

**4. Two Natural Science courses from different disciplines**

ISCI 131 Integrated Physical Science ..... 4 University Elective ..... 4

See courses that can be completed at LCC or EMU. If not completed at LCC, must be completed at EMU.

**5. Two Humanities/Fine Arts courses from different disciplines**

See courses that can be completed at LCC or EMU. If not completed at LCC, must be completed at EMU.

**6. Two Social Science courses from different disciplines**

See courses that can be completed at LCC or EMU. If not completed at LCC, must be completed at EMU.

**If needed, complete additional courses from the above categories to meet the 30 credit minimum for the MTA.**

**LCC Program Requirements (54-55 credits)**

BUSN 118	Introduction to Business.....3	COB 200	University Elective.....3
* CITF 110	Intro Computer Information Systems .....3	IS 215	sub for restricted elective .....3
* CITF 120	Operating Systems Concepts .....3	COSC 000	sub for restricted elective .....3
CITF 140	Information Technology Ethics.....3	AACR GEN	University Elective .....3
* CITF 240	IT Project Management.....3	ISAC 000	sub for restricted elective .....3
CITN 120	Networking Concepts .....3	ISAC 000	University Elective.....3
1* CITN 220	Introduction to Networks .....3	IT 110	Conc of Network & Business Tech (Previously IA 110)3
* CITN 225	Routing & Switching Essentials.....3	IT 150	Networking I (Previously IA 150).....3
* CITN 230	Linux/UNIX Operating System .....3	IA 212	Open Systems Platforms and Network Admin.....3
* CITN 250	Microsoft Network Server.....3	ISAC 000	sub for restricted elective .....3
1* CITN 280	IT Security Foundations .....3	IA 103	Information Security Overview .....3
* CITP 110	Intro to Computer Programming.....4		sub for COSC 146 Applied Programming & Scripting .....4
CITS 125	Computer Support: A+ Cert Prep .....6	ISAC 000	University Elective.....6
ENGL 127	Business Writing .....3	MGMT 202	University Elective .....3
2 MGMT 234	Diversity in the Workplace.....3		Perspectives on a Diverse World Requirement..... 3
	Additional Computer Courses .....5-6		University Electives .....5-6

**EMU Requirements that may be taken at LCC or EMU (22 credits)**

* CITN 253	Networking and Windows Server .....3	IA 244	Administration of Computer Systems.....3
	Remaining MTA Requirements: English Composition, Natural Science, Social Science, Humanities/Fine Arts, .....19		University Electives (MTA applies toward core gen ed) .....19

**Credits at LCC: ..... 87-88 Credits that transfer to EMU ..... 87-88**

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

<sup>1</sup> A grade of "B-" or higher in CITN 280 and CITN 220 (IA 103 and IT 110 at EMU) is required for admission to the IA program at EMU.

<sup>2</sup> Meets EMU's Perspectives on a Diverse World Requirement. If not completed at LCC, must complete a course at EMU to meet the requirement.

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

IA 103 and IT 110 (CITN 280 and CITN 220 at LCC) must be completed with a grade of “B-” or higher for admission to the IA major and to enroll in IA 300-level courses. All students must take at least 45 credits at the 300 level or above in the IA/CD program.

### **Major Requirements (51 credits)**

#### **Information Assurance Required Courses (42 credits)**

LEGL 320	Cyber Law and Compliance	3
COSC 274	Intro to Applied Cryptography	3
<sup>1</sup> IA 202L4	Risk and Vulnerability Analysis	3
IA 322	Managing Security Projects	3
IA 329W	Policy Development in Info Assurance (GEWI)	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 (Previously IA 354)	3

\*Work with faculty advisor to sub a remaining 200 level course with a 300/400 level course to meet the 45 credits at the upper level requirement.

#### **IA Restricted Electives (9 hours)**

<sup>1</sup> IA 387L4	Co-operative Education (GELB) (3)
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)
IT 375	Wireless Networks Administration (3)
Any IA, CIS, or COSC 300-level or higher (3)	

<b>Total Credits at EMU</b>	<b>51</b>
<b>Transfer Credits</b>	<b>73</b>
<b>Minimum Credits to Graduate</b>	<b>120</b>

<sup>1</sup> Satisfies EMU's Learning Beyond the Classroom requirement

NOTE: 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 (12 credits)**

LEGL 320	(may be taken in any semester)	3
COSC 274	FW	3
IA 202L4	FW	3
IA Restricted Electives		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	3
IA 427	FW Prereq: IT 110	3

#### **Fall semester (15 credits)**

IA 322	F Prereq: IA 202	3
IA 329W	FW 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 (12 credits)**

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

### **WINTER START**

#### **Winter semester (12 credits)**

LEGL 320	(may be taken in any semester)	3
COSC 274	FW	3
IA 202L4	FW	3
IA Restricted Electives		3

#### **Fall semester (15 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
IA 329W	FW Prereq: IA 202	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 (12 credits)**

IA 455	FW Prereq: IA 473	3
IA 495	F Prereq: IA 329, 244 & 322	3
IA Restricted Electives		6

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**Additional Information:**

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both LCC and EMU agree to accept transferable courses from each other and from other regionally accredited colleges. LCC courses indicated with an \* are required for EMU's BS in Information Assurance & 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. Students who enrolled in college prior to fall semester 2014 will have until the end of summer semester 2019 to complete the MACRAO agreement. If already on the transcript, the MACRAO designation will be accepted at EMU after summer semester 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, 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 (CITN 280 and CITN 220 at LCC) with a grade of "B-" or higher
  - b. Submit transcripts of all colleges attended to [cot-isac@atari.emich.edu](mailto: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 contact EMU Admissions to discuss transferring credit to EMU. To facilitate advising and the evaluation of transcripts, bring a copy of this guide to all advising sessions.

**Effective Date: September 1, 2018 through August 31, 2021.**

This is a renewal of an agreement made in January 2010. This agreement is consistent with the 2018-2019 catalog. Students have until summer 2026 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:**

**Lansing Community College**

**Eastern Michigan University**

Undergraduate Admissions

734.487.6453

[transfer\\_admissions@emich.edu](mailto:transfer_admissions@emich.edu)

[Schedule an appointment](#)