ARTICULATION AGREEMENT GUIDE

Henry Ford College – **AGS**
Eastern Michigan University – **BA in Computer Science**

Henry Ford 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. <u>Courses listed below for the MTA also satisfy program requirements at EMU and/or HFC.</u> For HFC approved MTA courses go to the community college's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. A course in English Composition
Choose one from the approved MTA list .... 3 | General Transfer Credit 3

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 115 College Algebra .... 5 | MATH 105 College Algebra (3)+2 5

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
Choose two from the approved MTA list .... 6 | General Transfer Credit…………………............................... 6

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: <u>Complete one course</u> from the following list:
These courses also satisfy an MTA area: <u>Natural Science</u>: BIO 138 (non-lab); <u>Humanities</u>: ART 224, 225, 226, 227; ENG 243, 248; PHIL 201; WR 233, 236, 241; <u>Social Science:</u> ANTH 131, 151, 152, 154; EDU 296; GEOG 132; HIST 113, 261; POLS 152; SOC 152, 251.*This course applies, but does <u>not</u> satisfy the MTA:* ART 229, BBA 250; LGL 248; PLGL 248

HFC AGS Program Requirements (30 credits)

*CIS 170 C Programming (3) and
*CIS 171 Java Programming (3) .... 6 | COSC 111/112 Introduction to Programming (4)+2 6
*CIS 271 Advanced Java .... 4 | COSC 211/212 Programming Data Structures..................... 4
*Choose one from:... 3-4 | COSC 231 Internet-based Computing 3-4
    CIS 122 Web Internet Technologies (3)
    CIS 126 HTML/CSS Web Programming (4)
Computer Technology Requirement...................................... 3 | General Transfer Credit 3
Additional AGS degree coursework................................. 13-14 | General Transfer Credit.. 13-14

EMU Requirements and Electives that may be Taken at HFC or EMU (15 credits)

Elective credit .... 15 | General Transfer Credit... 15
(Credit completed as elective credit at HFC may apply toward a minor at EMU)

The BA in Computer Science requires a minor. Please see EMU's list of programs for available minors at EMU. Course equivalencies for HFC course transfer to EMU can be found on EMU's equivalency site https://app.emich.edu/transfereq/ .

Credits at HFC:...**75**	**Credits that transfer to EMU**.......................**75**

Required for EMU's BA in Computer Science, BS in Computer Science Applied or BS in Computer Science Curriculum program. If not transferred, must be completed at EMU.

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Eastern Michigan University – **BA in Computer Science**

Completion of the BA in Computer Science

Major Requirements   (34 credits)

Required Computer Science Courses (22 credits)

COSC 221	Computer Organization I	3
COSC 311	Algorithms and Data Structures	4
COSC 314	Computational Discrete Structures	4
COSC 341	Programming Languages	4
COSC 381	Software Engineering Solutions	4
[1] COSC 481W	Software Engineering and Senior Project	3

Restricted Electives (12 credits)

Choose three courses from the following. At a minimum, one course must be from List A. The remaining two courses may be selected from either list.

List A

COSC 374	Applied Cryptography
COSC 421	Systems Programming
COSC 423	Computer Operating Systems
COSC 426	Software Dvlpmnt for Mobile Devices
COSC 436	Web Programming
COSC 439	Computing Network Principles
COSC 445	Compiler Construction
COSC 456	Computer Graphics
COSC 457	Computer Game Programming
COSC 461	Introduction to Artificial Intelligence
COSC 471	Database Principles

List B

COSC 315	Symbolic Computing
COSC 321	Computer Organization II
COSC 405	Switching Theory
COSC 411	Algorithm Design and Analysis
COSC 422	Introduction to Microprocessors
COSC 444	Found of Automata & Languages
COSC 462	Introduction to Information Retrieval
COSC 472	Big Data I
COSC 473	Big Data II
COSC 480	Special Topics

1 Satisfies EMU's Writing Intensive requirement

LBC Requirement

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

Minor Requirement/Electives   (11 credits)

This major requires a minor. Please see Programs for a list of available minors or contact your major advisor. A minimum of 6 credits must be completed at EMU at the 300 level or higher for a minor.

Students who complete a minor without completing the remaining 11 credits at EMU should complete the appropriate amount of credits to reach 120 credits at EMU. Some minors may require more than 11 credits to complete at EMU.

Credits at EMU: 45
Transfer Credits: 75
Total Credits: 120

ARTICULATION AGREEMENT GUIDE

Henry Ford College – **AS in Computer Science**
Eastern Michigan University –**BS in Computer Science Curriculum**

Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both institutions agree to accept transferable courses from each other and from other regionally accredited institutions. HFC courses indicated with an * are required for EMU's BA in Computer Science, BS in Computer Science Applied or BS in Computer Science Curriculum. 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 45 credit hours must be completed in EMU courses, with at least 15 hours in the program or (9 hours in the major and 6 hours in the minor), 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. HFC students will receive equal consideration with other students for course registration and financial aid.

6. Students are encouraged to contact EMU's Undergraduate Admissions Office 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, 2024 until August 31, 2027.
This is a renewal of an agreement made in September 2012 and renewed in September 2017 and September 2020. This agreement is consistent with the 2024-2025 catalog. Students have until summer 2032 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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