

CIVIL ENGINEERING ARTICULATION AGREEMENT GUIDE

Henry Ford College – **AS in Pre-Engineering**
 Eastern Michigan University – **BS in Civil Engineering**

Henry Ford College Courses:

Eastern Michigan University Courses:

Michigan Transfer Agreement (MTA) Requirements (33 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 HFC. For HFC approved MTA courses go to HFC's website. MTA requirements here. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. A course in English Composition

ENG 131 Introduction to College Writing 3 WRTG 120 General Transfer Credit..... 3

2. A course in English Composition or Communication

* ENG 135 Business & Technical Writing and Research..... 3 WRTG 121 Composition II..... 3

3. A course in Mathematics

* MATH 180 Calculus I..... 5 MATH 120 Calculus I (4)+1..... 5

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

* CHEM 141 Principles of General and Inorganic Chemistry I .. 5 CHEM 121/122 General Chemistry I (4)+1..... 5

* PHYS 231 Engineering Physics I..... 5 PHY 223 Mechanics and Sound 5

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 one from: BEC 151 or 152 3 ECON 201 or ECON 202 3

Choose one from the approved MTA list..... 3 General Transfer Credit..... 3

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 one course from the following list:

These courses also satisfy an MTA area: **Natural Science:** BIO 138 (non-lab); **Humanities:** ART 224, 225, 226, 227; ENG 243, 248; PHIL 201; WR 233, 236, 241; **Social Science:** ANTH 131, 151, 152, 154; EDU 296; GEOG 132; HIST 113, 243, 252, 261; POLS 152; PSY 296; SOC 152, 251. **This course applies, but does not satisfy the MTA:** ART 229, BBA 250; LGL 248; PLGL 248

HFC Program Requirements (29 credits)

* ENGR 232 Statics (must take PHYS 231 to receive credit) 3 ME 211 Statics 3

* MATH 183 Calculus II..... 5 MATH 121 Calculus II (4)+1..... 5

* MATH 280 Calculus III..... 5 MATH 223 Multivariable Calculus (4)+1 5

* MATH 288 Differential Equations..... 5 MATH 325 Differential Equations (3)+2 5

* ENGR 125 Introduction to Computation for Engineers 3 CEET 151 Intro to Computing in Engineering Technology... 3

* ENGR 130 Introduction to Engineering..... 3 ME 100 Intro to Engineering Design & Manufacturing 3

PHYS 232 Engineering Physics II..... 5 PHY 224 General Transfer Credit..... 5

EMU Requirements and Electives that May be Taken at HFC or EMU (13 credits)

* ENGR 233 Dynamics..... 3 ME 312 Dynamics..... 3

* ENGR 235 Mechanics of Materials..... 2 ME 313 Mechanics of Materials (3)-1..... 2

* MATH 283 Linear Algebra 3 MATH 122 Elementary Linear Algebra 3

* Choose one from: BIO 152 (4) or GEOL 131 (4)..... 4 BIO 110/111 (5)-1 or ESSC 110 (4) 4

Electives 1 General Transfer Credit..... 1

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

*Required for EMU's BS in Civil Engineering program. If not transferred, must be completed 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 BS in Civil Engineering

Remaining Requirements (45 credits)

Program Requirements (40 credits)

CIVE 200	Surveying.....	3
CIVE 210	Civil and Construction Materials	3
CIVE 310	Construction Management	3
CIVE 330	Structural Analysis.....	3
CIVE 340	Geotechnical Engineering	3
CIVE 341	Geotechnical Engineering Laboratory	1
CIVE 350	Water and Wastewater Engineering.....	3
CIVE 360	Transportation Engineering	3
CIVE 400	Hydraulics.....	3
CIVE 410	Reinforced Concrete Design	3
CIVE 420	Steel Structures.....	3
CIVE 490W	Capstone Project.....	3
ME 317	Fluid Mechanics (or PHY 485).....	3
STAT 360	Statistical Methods	3

General Credit (5 credits)

Students must complete a minimum of 45 credits at EMU under this agreement. Students may choose any 100 level or higher courses at EMU to complete the requirement.

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:	45
Transfer Credits	75
Minimum Credits to Graduate:	120

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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. HFC courses indicated with an * are required for EMU's BS in Civil Engineering. 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 30 credit hours must be completed in EMU courses, with at least 15 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. HFC students will receive equal consideration with other students for course registration and financial aid.

Requirements for Admission - To be considered for admission, students must meet the following criteria:

- A minimum EMU cumulative GPA of 2.5. (If a student has not yet established an EMU GPA, a combined GPA of 2.5 from all transfer institutions will be accepted)
 - Completion of PHY 223 with a grade of "C" or higher (or equivalent transfer credit)
 - Completion of MATH 120 and MATH 121, with a grade of "C" or higher (or equivalent transfer credit.)
 - Application Process - To be considered for admission, applicants must take the following steps:
 - Submit an Application online by October 1, February 1, or July 1
 - Attend a mandatory meeting with a Civil Engineering faculty member or COET Staff Advisor. *Applicants are contacted to schedule an appointment after the receipt of their application.*
6. Students are encouraged to contact the GameAbove College of Engineering and Students Services office before applying to EMU. To facilitate advising and the evaluation of transcripts, [sign up for this articulation agreement](#) and bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2021 until August 31, 2024.

This agreement is consistent with the 2021-2022 catalog. Students have until summer 2029 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:

Henry Ford College

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Eastern Michigan University

GameAbove College of Engineering & Technology

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