

**ARTICULATION AGREEMENT GUIDE**

Wayne County Community College District – **AS in Pre-Engineering**  
 Eastern Michigan University – **BS in Mechanical Engineering**

**Wayne County Community College District 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. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCCCD. For WCCCD 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**

ENG 119 English I.....3      WRTG 120 Composition I.....3

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

ENG 120 English II.....3      WRTG 121 Composition II.....3

**3. A course in Mathematics**

\* MAT 171 Calculus I.....4      MATH 120 Calculus I.....4

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

\* CHM 136 General Chemistry I.....4      CHEM 121/122 General Chemistry I.....4

Choose one from the approved MTA list.....4      General Transfer Credit.....4

**5. Two courses in Humanities from different disciplines**

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

Recommend choosing one from the perspectives on a diverse world list

**6. Two courses in Social Sciences from different disciplines**

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

\* **EMU's Perspective on a Diverse World Requirement:** Transfer students are required to complete one course that meets the diversity requirement. The course may also fulfill an MTA requirement at WCCCD. The following courses can be used to fulfill MTA requirements above. **Humanities:** AAS 253; ENG 212, 260, 261, 266, 290, 292; HUM 126; MWS 102; **Social Science:** AAS 120, 131, 140, 150, 175, 180, 253; ANT 152, 154; HIS 152, 261, 262; MWS 101, 103, 106, 107, 114; PS 160; SOC 230.

**These courses apply to the diversity requirement, but do not satisfy the MTA:** COR 218, ECE 210; GEG 202; GER 110; PLT 260; SED 101; MGT 210.

**WCCCD Program Requirements (34 credits)**

CIS 209 C Programming Language.....	4	COSC 000 General Transfer Credit.....	4
* MAT 172 Calculus II.....	4	MATH 121 Calculus II.....	4
* MAT 271 Analytic Geometry & Calculus III.....	4	MATH 223 Multivariable Calculus.....	4
* MAT 272 Linear Algebra.....	4	MATH 122 Elementary Linear Algebra (3)+1.....	4
* MAT 273 Differential Equations.....	4	MATH 325 Differential Equations (3)+1.....	4
* PHY 265 Physics for Scientists and Engineering I.....	4	PHY 223 Mechanics and Sound (5)-1.....	4
PHY 275 Physics for Scientists and Engineers II.....	4	PHY 224 Electricity and Light (5)-1.....	4
PS 101 American Government.....	3	PLSC 112 American Government.....	3
SPH 101 Fundamentals of Speech.....	3	COMM 124 Found of Speech Communication.....	3

**EMU Requirements and Electives that may be Taken at WCCCD or EMU (3 credits)**

A minimum of 53 credits are required to be completed at EMU under this agreement. If students have completed all of the coursework listed above and do not have 67 credits, they may take an additional 3 credits. This may include the Perspective on a Diverse World course or other transferrable courses. Students should contact EMU Transfer Admissions for assistance with transfer credit.

**Credits at WCCCD: .....67      Credits that transfer to EMU..... 67**

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

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**Completion of the BS in Mechanical Engineering****Program admission requirements:**

- Cumulative transfer GPA of 2.7
- Completion of PHY 223 or equivalent with a grade of “C” or higher
- Completion of MATH 120 and MATH 121 or equivalent with a grade of C or higher

**Major Requirements (53 credits)****Foundational Requirements (9 credits)**

CEET 151	Intro to Computing in Engineering Technology.....	3
EECE 212	Engineering Circuit Analysis.....	3
SET350W	Engineering Communication .....	3

**Technical Requirements (44 credits)**

ME 100	Intro to Engineering Design & Manufacturing .....	3
ME 211	Statics.....	3
ME 312	Dynamics (or PHY 230).....	3
ME 313	Mechanics of Materials.....	3
ME 316	Thermodynamics (or PHY 360).....	3
ME 317	Fluid Mechanics (or PHY 485).....	3
ME 325	Mechanics of Composite Materials.....	2
ME 326	Composite Design and Processes .....	1
ME 330	Machine Design.....	3
ME 418	Heat Transfer.....	3
ME 420	Thermo/Fluids Lab.....	2
ME 431	Mechanical Design and Analysis.....	3
ME 432	Machine Dynamics .....	3
ME 435	Computational Solid Mechanics .....	3
ME 492	Senior Capstone I.....	3
ME 493	Senior Capstone II.....	3

**LBC Requirement**

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

<b>Credits at EMU:</b> .....	<b>53</b>
<b>Transfer Credits:</b> .....	<b>67</b>
<b>Total Credits:</b> .....	<b>120</b>

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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 transferable courses from each other and from other regionally accredited institutions. WCCCD courses indicated with an \* are required for EMU's BS in Mechanical 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 53 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. WCCCD students will receive equal consideration with other students for course registration and financial aid.
6. Program admission requirements:
  - a. Cumulative transfer GPA of 2.7
  - b. Completion of PHY 223 or equivalent with a grade of "C" or higher
  - c. Completion of MATH 120 and MATH 121 or equivalent with a grade of C or higher
7. 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, 2023 until August 31, 2026.

This agreement is consistent with the 2023-2024 catalog. Students have until summer 2031 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:

**Wayne County Community College District**

**Eastern Michigan University**

Undergraduate Admissions

Student Center Suite 220

734.487.6453; [transfer\\_admissions@emich.edu](mailto:transfer_admissions@emich.edu)

[Schedule an appointment](#)