ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – **AS in Pre-Engineering Science Transfer** Eastern Michigan University – **BS in Mechanical Engineering**

Washtenaw Community 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 WCC. For WCC 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 111 Composition I......4 WRTG 121 Composition II (3)+1 (prereg for SET 350W)......4 2. A course in English Composition or Communication WRTG 225 Writing in the Disciplines3 3. A course in Mathematics MATH 120 Calculus I (4)+1......5 4. Two courses in Natural Sciences from different disciplines (one lab required) * CEM 111 General Chemistry I......4 CHEM 121/122 General Chemistry I with Lab......4 PHY 223 Mechanics and Sound5 5. Two courses in Humanities and Fine Arts from different disciplines General Transfer Credit. 6 6. Two courses in Social Sciences from different disciplines Choose two from the approved MTA list6 General Transfer Credit......6 EMU's Perspectives 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 WCC. The following courses can be used to fulfill MTA requirements above. Communication: COM 225; Natural Science: ENV 101, 105; Humanities: ART 143, 150; COM 225; DAN 180; DRA 180; ENG 181, 213, 214, 242; FLM 150; HUM 175, 181; MUS 180; Social Science: ANT 201; ECO 280; GEO 101, 104; HST 108, 109, 123, 150, 230, 235, 241; PSY 251, 270; SOC 205. These courses apply, but do not satisfy the MTA: ECD 240 WCC Program Requirements (28 credits) CEM 122 General Chemistry II......4 CHEM 123/124 General Chemistry II with Lab......4 MATH 121 Calculus II......4 *MTH 192 Calculus II......4 *MTH 293 Calculus III (Restricted Math Elective)......4 MATH 223 Multivariable Calculus4 *MTH 295 Differential Equations (Restricted Math Elective) .4 MATH 325 Differential Equations (3)+14 PHY 224 Electricity and Light......5 Choose one: CPS 141 or CPS 1714 IT 145 or COSC 236......4 EMU Requirements and Electives that may be taken at WCC or EMU (9 credits) *MTH 197 Linear Algebra4 MATH 122 Elementary Linear Algebra (3)+1.....4 * CPS 161 Intro to Programming with Java......4 CEET 151 Intro to Computing in Eng Tech (3)+1.....4 Open Electives1 General Transfer Credit......1

Credits at WCC:.....70

Credits that transfer to EMU......70

^{*}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 2.70
- 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

(50 credits)

Foundational Requirements (6 credits)

EECE 212	Engineering Circuit Analysis (or ELEC 212)3
SET 350W	Engineering Communication3

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	
ME 316	Thermodynamics (or PHY 360)	3
ME 317	Fluid Mechanics (or PHY 485)	
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	
ME 492W	Senior Capstone I	
ME 493	Senior Capstone II	

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:	50
Transfer Credits:	70
Total Credits:	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 transferable courses from each other and from other regionally accredited institutions. WCC 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 50 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. WCC students will receive equal consideration with other students for course registration and financial aid.
- 6. Program admission requirements
 - Cumulative transfer GPA of 2.70
 - 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 Application process
 - Complete all admission requirements
 - Submit an online application by January 1st, May 1st, or August 1st
 - Attend mandatory meeting with Mechanical Engineering faculty member or GACET staff advisor.
- 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, 2024 to September 1, 2027

This is a renewal of an agreement made in September 2018 and renewed in 2021. 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:

Washtenaw Community College Advising Second Floor Student Center 734.677.5102; advising@wccnet.edu Eastern Michigan University
Undergraduate Admissions
Student Center Suite 220
734.487.6453; transfer_admissions@emich.edu
Schedule an appointment