

PRODUCT DESIGN ENGINEERING TECHNOLOGY ARTICULATION AGREEMENT GUIDE
Monroe County Community College – AAS in Manufacturing Technology
Eastern Michigan University – BS in Product Design Engineering Technology

Monroe County Community College Courses: **Transfer to Eastern Michigan University as:**

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 EMU General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and one writing intensive course in the major. Courses listed below for the MTA also satisfy program requirements at EMU and/or MCCC. [Monroe CCC MTA List](#).

1. A course in English Composition		
1 ENGL 151 English Composition I (C3).....	3	WRTG 120 (University Elective).....
2. A Second course in English Composition or Communication		
* ENGL 152 English Composition II.....	3	WRTG 121 Composition II (pre-req for SET300W).....
3. A course in Mathematics		
*MATH 171 Calculus I (C2).....	4	MATH 120 Calculus I.....
4. Two courses in Natural Sciences from different disciplines (one lab required)		
*CHEM 150 Introduction to General Chemistry.....	4	CHEM117/118 Fundamentals of Chemistry.....
*PHY 151 General Physics I (C1).....	4	PHY 221 Mechanics, Sound and Heat.....
5. Two courses in Humanities and Fine Arts from different disciplines		
Choose from the approved MTA list.....	6	University Elective.....
<i>It is recommended to complete a course that also meets C5</i>		
6. Two courses in Social Sciences from different disciplines		
Choose from the approved MTA list.....	6	University Electives.....
<i>It is recommended to complete a course that also meets C6</i>		

If needed, complete an additional course in 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:** BIOL 156; **Humanities:** ENGL 240, 255, 266; HUMAN 256, 257; **Social Sciences:** ANTHR 152; GEOG 152; HIST159, 173, 255, 256; POLSC 211, 252; SOC 153.

These courses apply, but do not satisfy the MTA: BMGT 220; IAS 105

MCCC Manufacturing Technology Requirements (Previously Product and Process Technology (49-50 credits))

*MATL 101 Industrial Materials.....	3	PDET 111 Materials.....	3
*MDTC 160 Mechanical Drafting and CAD I (C4).....	4	PDET 122 Engineering Graphics (3)+1.....	4
*MDTC 226 Geometric Dimensioning and Tolerancing.....	3	PDET 220 Geometric Dimensioning and Tolerancing.....	3
*MECH 102 Manufacturing Processes.....	4	PDET 123 Manufacturing Processes.....	4
MECH 103 Machining Basics and CNC.....	4	MFG 215 University Elective.....	4
MECH 104 CNC II.....	3	MFG 124 University Elective.....	3
MECH 105 CNC III.....	3	PDET 000 University Elective.....	3
MECH 131 Introduction to Automated Manufacturing.....	3	PDET 000 University Elective.....	3
MECH 201 CAD/CAM I.....	3	PDET 201 University Elective.....	3
*MECH 221 CAD/CAM II.....	3	PDET 433 3D Assembly Modeling.....	3
*MECH 231 CAD/CAM III.....	3	PDET 350 Prototyping.....	3
*METC 220 Statics & Strength of Materials.....	4	PDET 325 Applied Statics & Strength of Materials.....	4
*METC 170 Intro to Parametric CAD/CATIA (Res Elective).....	3	PDET 432 3D Modeling and Surfacing.....	3
QSTC 150 Introduction to Meteorology.....	3	PDET 000 University Elective.....	3
Choose one restricted elective.....	3-4	General Transfer Credit.....	3-4

EMU Requirements that May be Taken at MCCC or EMU (8-9 credits)

*MDTC 161 Mechanical Drafting and CAD II.....	4	PDET 224 Solid Modeling (3)+1.....	4
*PHY 152 General Physics II.....	4	PHY 222 Electricity and Light.....	4
Open Elective.....	0-1	General Transfer Credit.....	0-1

Credits at MCCC:88 Credits that apply to EMU's program..... 88

*Required for EMU's Product Design and Development 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 Product Design Engineering Technology at EMU

Major Requirements (36 credits)

PDET 156	Teamwork in Product Design & Development	3
PDET 157	Introduction to Product Design	3
PDET 212	Molding Materials and Processes	3
PDET 216	Concept Development	3
PDET 309	Molded Product Design	3
PDET 310	Formed Product Design	3
PDET 331	Product Data Management	3
PDET 491	CAD Capstone	3
PDET 492	Product Realization Studio	3
QUAL 320	Industrial Quality Control	3
¹ SET 350W	Engineering Communication	3
	Choose one course from the following	3
	MET 430 Computer Aided Engineering (3)	
	PDET 380 Engineering Cost Estimating (3)	
² PDET 387L4	Co-op in Product Design (3)	

LBC Requirement (0-3 credits)

Students must complete one Learning Beyond the Classroom course or noncredit experience offered by EMU. PDD 387L4 applies toward this requirement.

Credits at EMU: 36

Transfer Credits: 88

*** Total Credits: 124**

Suggested Sequence for completing the program:

Courses may not be offered every semester. Consult with the program coordinator to develop a program of study.

Fall Semester (9 credits)

PDET 156	F	3
PDET 157	F	3
PDET 331	F, pre-req: PDD 224	3

Winter Semester (12 credits)

PDET 212	W, pre-reqs: PDD 111 and 123	3
PDET 216	pre-req: PDD 157	3
PDET 310	W, pre-reqs: PDD 111, 123, 156, 224	3
PDET 491	W, pre-reqs: PDD 220, 325, 331, 350, 432, 433	3

Fall Semester (9 credits)

PDET 309	F, pre-reqs: PDD 156, 212, 224	3
SET 350W	F, W, pre-req: WRTG 121	3
QUAL 320	F,W, pre-req: College Algebra or equiv	3

Winter Semester (6 credits)

PDET 492	F, W, pre-req: PDD 220, 309, 310, QUAL 320	3
	Choose (1) from: MET 430, PDD 380	3

* EMU requires 124 credits to graduate. If sufficient credits are not transferred in, students may need to complete additional requirements at EMU to meet the requirement.

¹ Satisfies EMU's Writing Intensive requirement.

² Satisfies EMU's Learning Beyond the Classroom requirement.

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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. MCCC courses indicated with an * are required for EMU's BS in Product Design Engineering Technology. 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 at EMU, of which at least 15 must be completed at the 300-level or above. Of the last 30 hours completed before graduating, at least 10 hours must be in courses completed at EMU. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation. Courses listed in this guide may be completed at the most opportune time for students, whether before or after admission to EMU, as long as appropriate pre-requisites are satisfied.
5. Students must satisfy all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. MCCC students will receive equal consideration with other students for course registration and financial aid.
6. Students are encouraged to contact EMU's Product Design Engineering Technology program coordinator 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, 2019 until August 31, 2022.

This is a renewal of an agreement made in September 2011 and renewed in September 2014. This agreement is consistent with the 2019-2020 catalog. Students have until summer 2027 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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