ELECTRICAL AND COMPUTER ENGINEERING ARTICULATION AGREEMENT GUIDE – ARCHIVED

Monroe County Community College –Associate of Science Eastern Michigan University – BS in Electrical and Computer Engineering

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. See the Monroe courses approved for the MTA. Students who do not have the MTA or MACRAO endorsement must complete the EMU general education program.

	m the approved MTA list6	University Elective6
	d one course that also satisfies C5 competency	
	es in Social Sciences from different disciplines	
	rom the approved MTA list6	University Electives6
	d one course that also satisfies C6 competency	
	pplete an additional course in the above categories to	
•	ctives on a Diverse World requirement: Complete one	-
		56; <u>Humanities</u> : ENGL 240, 255, 266; HUMAN 256, 257; <u>Social</u>
	THR 152; GEOG 152; HIST159, 173; POLSC 211, 252; \$	
These courses	s apply, but do <u>not satisfy the MTA:</u> BMGT 220; IAS 1	U5
	iate of Science (32-36 credits)	
1*MATH 172	Calculus II4	MATH 121 Calculus II4
¹ *MATH 172 * MATH 251	Calculus II4 Introduction to Linear Algebra3	MATH 121 Calculus II
1*MATH 172 * MATH 251 * MATH 271	Calculus II	MATH 121 Calculus II
1*MATH 172 * MATH 251 * MATH 271 * MATH 273	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5
1*MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3
1*MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5
1*MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4
1*MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4
1*MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250 Choose 1 co	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4 University Elective 3
* MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250 Choose 1 co	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4
* MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250 Choose 1 co Choose 1 so	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4 University Elective 3 University Elective 3
* MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250 Choose 1 co Choose 1 so EMU requirent	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4 University Elective 3 University Elective 3 University Electives 11-15
* MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250 Choose 1 co Choose 1 so EMU requiren Open Electives Courses recon	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4 University Elective 3 University Elective 3
* MATH 172 * MATH 251 * MATH 271 * MATH 273 * METC 100 * PHY 252 * CIS 150 * CIS 250 Choose 1 co Choose 1 so EMU requiren Open Electives Courses recon ELEC 129 (4)	Calculus II	MATH 121 Calculus II 4 MATH 122 Elementary Linear Algebra 3 MATH 223 Multivariable Calculus 4 MATH 325 Differential Equations 5 ET 100 Intro to Engineering Tech sub for ME 100 3 PHYS 224 Electricity and Light 5 COSC 146 Applied Programming sub for COSC 111 4 COSC 211/212 Programming Data Structures 0-4 University Elective 3 University Elective 3 University Electives 11-15

^{*} Required for the Electrical and Computer Engineering program at EMU. Must be taken at EMU if not completed prior to transferring.

Admission requirement for the Electrical and Computer Engineering program at EMU. See page 3 of guide for all admission requirements.

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Completion of the BS in Electrical and **Computer Engineering at EMU**

Major Red	(47 credits)			
CET 151	nal Requirements (6 credits) Intro to Computing in Engineer Engineering Communication			
Electrical & Computer Engineering Courses (29				
credits)				
1 EECE 212 EECE 213 EECE 251 EECE 341 EECE 351 EECE 400 EECE 421 EECE 430 EECE 480	Engineering Circuit Analysis (o Engineering Circuit Analysis II. Digital Logic Design Engineering Electronics Microcontrollers Signals and Systems EECE Professional Practice Control Systems Engineering Power Electronics Senior Capstone			
Concentration (Choose 1 below) (9-12 credits)				
Computer Engineering Concentration				
COSC 221 EECE 352 EECE 452	Digital System Designs with HI Advanced Digital System Design	DL3		
Electrical Engineering Concentration				
EECE 342 EECE 365 EECE 372 EECE 431	Engineering Electronics II Engineering Electromagnetics. Communication Systems Digital Control Systems	3 3		
LBC Requirement (0-3 credits)				

Credits at EMU: 47 Transfer Credits: 77 Total Credits: 124

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

University Elective

(0-3 credits)

Students must complete a minimum of 47 credits at EMU unless otherwise approved through the department.

^{*} EMU requires 124 credits to graduate. If sufficient credits are not transferred to EMU, the course credit must be taken at EMU.

¹ Must complete course with a "C" or higher for program admission. ² Satisfies EMU's Writing Intensive in the major requirement.

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Additional Information:

- 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 Electrical and Computer Engineering program.
 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 124 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. MCCC students will receive equal consideration with other students for course registration and financial aid.
- 6. To be considered for admission students must meet the following requirements:
 - A minimum EMU cumulative GPA of a 2.5 or a combined GPA of 2.5 from all other transfer institutions
 - Completion of PHY 224, MATH 120, MATH 121, and EECE 212 with a grade of "C" or above (or equivalent transfer credit)
- 7. Students are encouraged to contact the College of Engineering and Technology Student Services 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, 2019 through August 31, 2022.

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:

Monroe County Community College Admissions and Guidance Office A101 734.384.4104 **Eastern Michigan University**College of Engineering & Technology Student Services

734.487.9751 cot advising@emich.edu