ARCHIVED ELECTRONIC ENGINEERING TECH ARTICULATION GUIDE

Macomb Community College – **AAS in Electronic Engineering Technology** Eastern Michigan University – **BS in Electronic Engineering Technology**

Macomb Community College Courses:	Eastern Michigan University Courses:
Michigan Transfer Agreement (MTA) Requirements (3	30 credits)
Students with the MTA endorsement on their community college trans	
Requirements and will be required to complete only the General Educ	
Diverse World course, one Learning beyond the Classroom experience	
below for the MTA also satisfy program requirements at EMU and/or	
website. Students without an MTA or MACRAO endorsement must co	omplete EMU's general education program
1. A course in English Composition	
Choose one from: ENGL 1180 or 1210	WRTG 120 University Elective (3)+1
2. A course in English Composition or Communication	
Choose one from the approved MTA list	University Elective
3. A course in Mathematics	· · · · · ·
* MATH 1760 Analytic Geometry and Calculus 1	MATH 120 Calculus I sub for MATH 1404
4. Two courses in Natural Sciences from different disciplines (o	
* CHEM 1170 General Chemistry 14	CHEM 121/122 General Chemistry I4
* PHYS 1180 College Physics 14	PHY 221 Mechanics, Sound and Heat4
5. Two courses in Humanities and Fine Arts from different disci	
Choose two from the approved MTA list	University Elective
6. Two courses in Social Sciences from different disciplines	,
Choose two from the approved MTA list6	University Elective
If needed, complete additional credits in any of the above catego	
EMU's Perspectives on a Diverse World requirement: Complete of	
Courses on this list will satisfy an MTA area above: <u>Communication</u>	
Humanities: ENGL 2800, 2810; INTL 2000, 2300, 2800; Social Sci	
1700, 2375, 2520, 2650;POLS 1600; or SOCY 2550	<u></u>
MCC Electronic Engineering Technology Program Re	auiromante (11 cradite)
*ELEC 1161 Electronic Technology 1 (3) and	equirements (44 creats)
*ELEC 1171 Electronic Technology 2 (3) and	
*TMTH 1150 RCL Analysis (4)	ELEC 200 and ELEC 210 (6) +410
* CORE 1060 Industrial Computer Technology	ET 100 Introduction to Engineering Technology (3)+14
ELEC 1182 Semiconductor Theory & Devices	ELEC 000 University Elective
*ELEC 1211 Digital Electronics Basics	ELEC 214 Digital Circuit Analysis I
*ELEC 1221 Microcontrollers With Robotic Application (3) and	
*ELEC 2010 Instrumentation 1-Transducer Theory (3)	
*ELEC 2150 LabVIEW Basics 1 (3)	ELEC 218 Motors and Controls (3)+69
ELEC 2160 LabVIEW Basics 2	AACR Gen University Elective
ELEC 2490 Instrument 2-Adv Op-Amps & Linear Integr Crts 3	ELEC 000 University Elective
ELEC 22490 Institution 22400 Op-Amps & Elifean integric fits 3 ELEC 2270 Microcontroller Programming	ELEC 000 University Elective
ELEC 2270 Microprocessor Interfacing	ELEC 000 University Elective
ELEC 2005 Discrete Amplifiers & Introduction to Op-Amps3	
	ELEC 000 University Elective
EMU Requirements and Electives that May be Taken	at MCC or EMU (15 credits)
*ITCS 2530 C++ Programming 14	COSC 246 Programming in C++
*MATH 1770 Analytic Geometry and Calculus 24	MATH 121 sub for MATH 141
*MATH 2000 Introduction to Linear Algebra	MATH 122 Elementary Linear Algebra
*PHYS 1190 College Physics 24	PHY 222 Electricity and Light4
Credits at MCC:89	Credits that transfer to EMU 89

*Required for EMU's BS in Electronic Engineering Technology 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 Electronic Engineering Technology at EMU

Major Req	uirements (45 cre	dits)
CET 151	Intro to Computing in Engineering Tech	3
CET 427	Programmable Logic Controller	3
ELEC 300	Analog Circuit Analysis I	3
ELEC 310	Analog Circuit Analysis II	3
ELEC 314	Digital Circuit Analysis II	
ELEC 320	Microcomputer Circuits	
ELEC 326	Transform Circuit Analysis with Calculus	3
¹ ELEC 387L	4Co-op in Electronic Technology	3
ELEC 415	Communication Circuits	
ELEC 420	Advanced Microprocessors	3
ELEC 426		
ELEC 450		
QUAL 320		
² SET 350W	Engineering Communication	
	e course from the following:	
	Statics (3)	
	Appl Thermodynamics & Heat Transfer (3)	

Credits at EMU:	45
Transfer Credits:	89
Total Credits:	134

1 Fulfills EMU's Learning Beyond the Classroom requirement.

2 Fulfills EMU's Writing Intensive 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. MCC courses indicated with an * are required for EMU's BS in Electronic 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 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. MCC students will receive equal consideration with other students for course registration and financial aid.
- 6. Students are encouraged to contact EMU's BS in Electronic Engineering Technology program coordinator before applying to EMU. To facilitate advising and the evaluation of transcripts, <u>sign up for this articulation</u> <u>agreement</u> 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 January 2012. 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: Macomb Community College Counseling/Academic Advising 586.445.7999 askanadvisor@macomb.edu

Eastern Michigan University GameAbove College of Engineering & Technology Student Services 734.487.8659 cet advising@emich.edu