

ELECTRONIC ENGINEERING TECHNOLOGY ARTICULATION AGREEMENT GUIDE

Wayne County Community College District – AAS in Electrical Electronics Engineering Technology
 Eastern Michigan University – BS in Electronic Engineering Technology

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 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 WCCCD. For WCCCD approved MTA courses go to WCCCD's catalog.

1. A course in English Composition

ENG 119 English I 3 WRTG 120 General Transfer Credit 3

2. A course in English Composition or Communication

*ENG 120 English II 3 WRTG 121 Composition II (pre-req to SET 350W) 3

3. A course in Mathematics

* MAT 171 Analytic Geometry and Calculus I 4 MATH 120 sub for MATH 140 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

*PHY 235 General Physics I 4 PHY 221 Mechanics, Sound & Heat 4

5. Two courses in Humanities and Fine Arts from different disciplines

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

6. Two courses in Social Sciences from different disciplines

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

PS 101 American Government 3 General Transfer Credit 3

If needed, complete additional credits in any of 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: 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, but do not satisfy the MTA:** COR 218, ECE 210; GEO 202; SED 101

WCCCD Electrical Electronics Engineering Technology Program Requirements (43 credits)

*CT 203 Digital Logic I 4 ELEC 214 Digital Circuit Analysis I (3)+1 4

CT 205 Introduction to Microprocessor 4 ELEC 000 General Transfer Credit 4

*EE 101 Circuit Analysis I 4 ELEC 200 Circuit Analysis I (3)+1 4

*EE 102 Circuit Analysis II 4 ELEC 210 Circuit Analysis II 4

EE 105 Electronics Fabrication & Design 2 ELEC 000 General Transfer Credit 2

*EE107 Mathematics for Electrical/Electronics I 4 AACR GEN Credit sub for ET 100 (3)+1 4

EE 111 Solid State Fundamentals 3 ELEC 000 General Transfer Credit 3

EE 115 Mathematics for Electrical/Electronics II 4 AACR GEN General Transfer Credit 4

EE 205 Linear Integrated Circuits 2 ELEC 000 General Transfer Credit 2

*MCT 203 Electrical Machinery and Controls 3 ELEC 218 Motors & Controls 3

MCT 208 Programmable Logics Controllers 3 MFG 361 General Transfer Credit 3

TCM 200 Introduction to Telecommunications 3 ELEC 000 General Transfer Credit 3

TCM 203 Communications I 3 ELEC 000 General Transfer Credit 3

EMU Requirements and Electives that May be Taken at WCCCD or EMU (8 credits)

* MAT 172 Analytic Geometry and Calculus II 4 MATH 121 sub for MATH 141 4

* PHY 245 General Physics II 4 PHY 222 Electricity and Light 4

Credits at WCCCD:.....81 Credits that transfer to EMU..... 72-73

*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 Requirements (51-52 credits)	
CET 151	Intro to Computing in Engineering Tech3
CET 427	Programmable Logic Controller3
ELEC 300	Analog Circuit Analysis I3
ELEC 310	Analog Circuit Analysis II3
ELEC 314	Digital Circuit Analysis II3
ELEC 320	Microcomputer Circuits3
ELEC 326	Transform Circuit Analysis with Calculus3
¹ ELEC 387L4	Co-op in Electronic Technology3
ELEC 415	Communication Circuits3
ELEC 420	Advanced Microprocessors3
ELEC 426	Control Systems Engineering3
ELEC 450	Senior Design Project3
MATH 122	Elementary Linear Algebra3
QUAL 320	Industrial Quality Control3
² SET 350W	Engineering Communication3
Choose one course from the following:3	
MET 211 Statics (3)	
MET 314 Appl Thermodynamics & Heat Transfer (3)	
Choose one course from the following:3-4	
CET 120 Eng Graphics Essentials w/ Electr Apps (3)	
CET 220 Computer-Aided Electronics (3)	
CET 252 Engineering Programming (4)	
COSC 246 Programming in C++ (3)	

Credits at EMU: **51-52**
Transfer Credits: **72-73**
Credits to Graduate: **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.

MATH 120 (MAT 171 at WCCCD) is pre or co-requisite to ELEC 210.

MATH 121 (MAT 172 at WCCCD) is pre or co-requisite to ELEC 310

Fall Semester (12 credits)

CET 151	F,W3
ELEC 300	F, pre-req: ELEC 2103
ELEC 314	F, pre-req: ELEC 2143
ELEC 320	F, pre-reqs: ELEC 214 and CET 1513

Summer Semester (3 credits)

MATH 122	F,W S, pre-req : MATH 1203
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Winter Semester (12 credits)

CET 427	F,W, pre-req : ELEC 2183
ELEC 310	W, pre-req: ELEC 3003
ELEC 420	W, pre-req: ELEC 3203
Choose one from: MET 211, 3143	

Fall Semester (12-13 credits)

ELEC 326	F, pre-reqs: ELEC 210 and MATH 1203
ELEC 415	F, pre-req: ELEC 3103
QUAL 320	F, W3
Choose one from: CET 120, 220, 252; COSC 2463-4	

Winter Semester (12 credits)

¹ ELEC 387L4	F,W3
ELEC 426	W, pre-reqs: ELEC 326 and MATH 1213
ELEC 450	W, pre-reqs: ELEC 420 and 4153
SET 350W	F, W, pre-req: WRTG 1213

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. WCCCD 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 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. WCCCD 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, sign up for this articulation agreement and bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2020 until August 31, 2023.

This agreement is consistent with the 2020-2021 catalog. Students have until Summer 2028 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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Eastern Michigan University

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