

ELECTRONIC ENGINEERING ARTICULATION AGREEMENT GUIDE

Northwest State Community College – **AAS in Electrical Engineering Technology**
 Eastern Michigan University – **BS in Electronic Engineering Technology**

Northwest State Community College Courses: Transfer to Eastern Michigan University as:**Ohio Transfer Module + EMU General Education Core Requirements (41 credits)**

The courses below were selected to satisfy both the OTM and EMU's General Education Core Requirements. If students complete the OTM, then EMU's General Education Core is also satisfied and only the General Education Applied requirements of one Perspectives on a Diverse World course, one Writing Intensive course, and one Learning beyond the Classroom course or experience must be completed. All three Applied requirements are included in this guide. Contact Community College Relations cccr_office@emich.edu to have this agreement and the OTM applied to your EMU record.

1. English/Oral Communication

1 ENG 111 Composition I or (ENG 112 Comp II).....	3	WRTG 120 Comp I or (WRTG 121 Comp II GEEC).....	3
ENG 113 Speech.....	3	COMM 124 Found of Speech Communication (GEEC).....	3

2. Mathematics Electives:

*MTH 213 Calculus I.....	5	MATH 120 Calculus I (GEQR) (4)+1 <u>sub for MATH 140</u>	5
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3. Natural & Physical Sciences: Two courses from different disciplines

*CHM 201 General Chemistry I.....	5	CHEM 121/122 General Chemistry & Lab (GEKN) (4)+1.....	5
*PHY 251 Physics: Mechanics and Heat.....	4	PHY 221 Mechanics, Sound and Heat (GEKN).....	4

4. Arts & Humanities: Three courses required

Choose two courses:.....	6	EMU's Knowledge of the Arts (GEKA).....	6
HUM 221, HUM 230, ENG 240			

Choose two courses:.....	6	EMU's Knowledge of the Humanities (GEKH).....	6
ENG 223, 230, 240, 241, 250, 251, 260, 261; PHI 110, 201, 210			

5. Social & Behavioral Sciences: Three courses from at least 2 disciplines

Choose two: ECO 211, 212, HIS 101, 102, 203, SSC 101, 1206		EMU's Knowledge of the Social Sciences (GEKS).....	6
² Choose one: GEO 110; HIS 210; SSC 130, or SSC 210.....	3	EMU's Perspectives on a Diverse World (GEUS/GEGA).....	3

NSCC Electrical Engineering Technology (42 credits)

*CAD 112 CAD II.....	4	PDET 000 <u>sub for CET 120</u>	4
ENG 210 Technical Communication.....	3	ENG 000 University Elective.....	3
*PHY 252 Physics: Electricity & Magnetism.....	4	PHY 222 Electricity and Light.....	3
*MET 100 Introduction to Engineering Technology.....	2	ET 100 Introduction to Engineering Technology (3)-1.....	2
*EET 121 DC Circuits.....	3	ELEC 200 Circuit Analysis I.....	3
*EET 122 AC Circuits.....	3	ELEC 210 Circuit Analysis II.....	3
*EET 221 Digital Circuits.....	4	ELEC 214 Digital Circuit Analysis I (3)+1.....	4
EET 231 Microprocessors.....	4	ELEC 000 University Elective.....	4
EET 240 Engineering Programming.....	3	ELEC 000 University Elective.....	3
EET 272 Networking I.....	3	ELEC 000 University Elective.....	3
EET 277 Industrial Electronics.....	3	ELEC 000 University Elective.....	3
PLC 200 Programmable Controller I.....	3	CET 000 University Elective.....	3
Choose one: EET 282 or PLC 230 or CET 115.....	3	University Elective.....	3

EMU Requirements that may be taken at NSCC or EMU (8 credits)

*MTH 214 Calculus II.....	5	MATH 121 Calculus II (4)+1.....	5
³ MET 235 Statics.....	3	MET 211 Statics.....	3

Credits that may be taken at NSCC:91 Credits that transfer to EMU..... 91

* Required for EMU's Electronic Engineering Technology program. If not transferred, must be completed at EMU.

¹ ENG 112 is required for EMU's General Education Core, if the OTM is **not** satisfied. Contact the Director of Community College Relations at cccr_office@emich.edu for assistance in transferring the OTM and signing up for this agreement.

² Satisfies EMU's Perspectives on a Diverse World requirement

³ Satisfies a restricted elective at EMU. If MET 235 is not transferred, students will take either MET 211 or MET 314 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 Electronic Engineering Technology Major

Major Requirements (48 credits)

Core Courses (48 credits)

CET 151	Introduction to Computing in Engineering Tech ...	3
CET 427	Programmable Logic Controller.....	3
ELEC 218	Motors and Controls	3
ELEC 300	Analog Circuit Analysis I.....	3
ELEC 310	Analog Circuit Analysis II.....	3
ELEC 314	Digital Circuit Analysis II.....	3
ELEC 320	Microcomputer Circuits.....	3
ELEC 326	Transform Circuit Analysis w/Calculus	3
¹ ELEC 387L4	Cooperative Education in EET.....	3
ELEC 415	Communication Circuits	3
ELEC 420	Advanced Microprocessors	3
ELEC 426	Control Systems Engineering.....	3
ELEC 450	Senior Design Project.....	3
MATH 122	Elementary Linear Algebra.....	3
QUAL 320	Industrial Quality Control.....	3
² SET 350W	Engineering Communication	3

Credits at EMU:48

Transfer Credits:91

Credits to Graduate:139

¹ Satisfies EMU's "Learning Beyond the Classroom" requirement

² Satisfies EMU's Writing Intensive Requirement

Note: Students who do not transfer MET 211 from NSCC will choose from MET 211 or MET 314 at EMU.

Substitutions

A substitution for CET 120 (CAD 112 from NSCC) must be submitted by your advisor to be added to your EMU transcript. Contact your program advisor at EMU to submit the substitution form for you.

Sample sequence for completing program.

Courses may not be offered every semester. See the EET advisor to create a personal program of study and keep it up to date.

Semester 1 Winter (12 credits)

SET 350W	FWS prereq: WRTG 121	3
CET 151	FW	3
ELEC 218	FW prereq: ELEC 200	3
QUAL 320	FWS prereq: MATH 105	3

Semester 2 Fall (12 credits)

ELEC 300	F prereq: ELEC 210.....	3
ELEC 314	F prereq: ELEC 214.....	3
ELEC 320	F prereq: ELEC 214 & CET 151	3
MATH 122	FWS prereq: MATH 105	3

Semester 3 Winter (9 credits)

CET 427	FW prereq: ELEC 218	3
ELEC 310	W prereq: ELEC 300	3
ELEC 420	W prereq: ELEC 320	3

Semester 4 Fall (9 credits)

ELEC 326	prereq: ELEC 210 & MATH 120	3
ELEC 387L4	FWS.....	3
ELEC 415	F prereq: ELEC 310.....	3

Semester 5 Winter (6 credits)

ELEC 426	W prereq: ELEC 326 & MATH 121	3
ELEC 450	W prereq: ELEC 415 & ELEC 420.....	3

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Additional Information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both Northwest State Community College and EMU agree to accept transferable courses from each other and from other regionally accredited institutions. Northwest State Community College 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 who complete the Ohio Transfer Module "OTM" 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. Contact the Director of Community College Relations at ccr_office@emich.edu to have the OTM transferred to your EMU records.
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 45 credit hours be completed in EMU courses, of which 15 hours is in program requirements, at the 300-level or above. Of the last 30 hours completed before graduating, at least 10 hours must be in courses offered by EMU. A minimum of 124 total 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 to EMU, including submitting transcripts from all previously attended colleges. NSCC students will receive equal consideration with other students for course registration and financial aid. Ohio undergraduate students will receive EMU's in-state tuition rate.
6. Students are encouraged to contact the College of Engineering and Technology Student Service Office before applying to EMU. To facilitate advising and the evaluation of transcripts, sign up for this articulation agreement, and bring a copy of the articulation guide to all advising sessions.

Effective dates: September 1, 2020 until August 31, 2023

This agreement is consistent with the 2020-21 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 a more recent articulation guide.

Contacts:

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Eastern Michigan University

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