

ARTICULATION AGREEMENT BETWEEN
Northwest State Community College
AAS in Electrical Engineering Technology
and
Eastern Michigan University
BS in Electronic Engineering Technology

Article I
Agreement on Principle

Eastern Michigan University (EMU) and Northwest State Community College (NSCC) agree that students who choose to begin their studies at a community college and transfer to a university to earn a bachelor's degree should be provided with a smooth curriculum transition that minimizes loss of credit and duplication of coursework. Therefore, EMU and NSCC agree to enter into this articulation agreement to facilitate the completion of the associate degree in Electrical Engineering Technology at NSCC and the Bachelor of Science in Electronic Engineering Technology at EMU. Both institutions enter into this agreement as cooperating, equal partners who shall maintain the integrity of their separate programs.

Article II
Agreement on Program Specifics

EMU and NSCC agree that any student who has satisfied the minimum requirements on the attached articulation guide may transfer the course credits indicated toward a Bachelor of Science in Electronic Engineering Technology at EMU. Under this agreement, EMU will waive the 60-hour rule and require students to complete a minimum of 45 credit hours at EMU, of which 15 hours are program requirements at the 300-level or above. A minimum of 124 total credits is required to graduate.

EMU agrees that students who have completed the Ohio Transfer Module 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. Students may complete the OTM before or after admission to EMU. Students who have not satisfied the OTM must complete the General Education Program (both the Core and Application requirements) as applied to transfer students. Contact the Director of Community College Relations for assistance in transferring the OTM at ckibin@emich.edu. All other EMU graduation and program requirements must be satisfied whether by transferred courses, EMU courses, or approved substitutions or waivers.

For the purpose of this articulation agreement, both NSCC and EMU agree to accept transferrable courses from each other and from other regionally accredited institutions. Articulation guides will be provided to assist students in completing the articulated program of study. Each institution will determine the satisfaction of their individual program and degree requirements. NSCC courses indicated with an * on the articulation guide are required for EMU's program. Any substitutions for these courses must be approved by the EMU program coordinator if not already stated in the agreement. In the case of a student who has accumulated credits before declaring this program, every effort will be made to maximize the use of credits already completed. Students will be encouraged to complete an associate degree.

Students using this agreement must apply and be admitted to EMU. NSCC students will receive equal consideration with other students seeking admission and financial aid. Ohio undergraduate students will receive EMU's in-state tuition rate.

Article III

Agreement on Communication

NSCC and EMU agree to cooperate in communicating with each other and with their common and respective publics concerning the established relationship between the two institutions. Communication may include the development of various kinds of publications to inform those who might benefit personally or professionally from the opportunities provided by this agreement. Faculty and staff at both institutions will share the information in this agreement with interested and qualified students and both institutions will provide counseling and advising to students and prospective students.

Article IV

Maintenance and Review Procedures

At least one administrative or faculty member from each institution will be appointed to act as agents for the implementation of this agreement, to speak for the institutions and to communicate changes to respective faculty members, advisors, counselors, and others to whom the information is pertinent. Responsibility for oversight of this agreement rests with the Dean of Science, Technology, Engineering Technology and Math at NSCC and the Director of the School of Engineering at EMU. Both parties agree to communicate annually any changes in their respective programs that may affect this articulation agreement.

Effective Dates: 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.


ARTICULATION AGREEMENT BETWEEN
Northwest State Community College
Associate Degree in Electrical Engineering Technology
and
Eastern Michigan University
Bachelor of Science in Electronic Engineering Technology

Northwest State Community College and Eastern Michigan University agree to the terms of this agreement, which will be in effect from **September 1, 2020 until August 31, 2023**

Signatures

Northwest State Community College


Eastern Michigan University



 Michael Thomson, PhD
 President

8/11/20


 Date



 James M. Smith, PhD
 President

6/10/2020

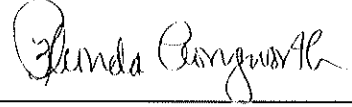
 Date



 Dan Burklo, MSE, PhD
 Vice President for Academics

8/6/2020


 Date



 Rhonda Kinney Longworth, PhD
 Provost and Executive Vice President
 Academic and Student Affairs

6/3/20

 Date



 Ryan Hamilton
 Dean of Science, Technology, Engineering
 Technology & Math

8/16/20


 Date



 Mohamad Qatu, PhD
 Dean, College of Engineering & Technology

6/2/2020

 Date



 Bob Lahidji, PhD, Interim Director
 School of Engineering

5/27/2020

 Date

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
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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
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² Choose one: GEO 110; HIS 210; SSC 130, or SSC 210.....	3	EMU's Perspectives on a Diverse World (GEUS/GEGA).....	3
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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 requirement³ 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.

ELECTRONIC ENGINEERING ARTICULATION AGREEMENT GUIDE

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

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

ELECTRONIC ENGINEERING ARTICULATION AGREEMENT GUIDENorthwest State Community College – **AAS in Electrical Engineering Technology**Eastern Michigan University – **BS in Electronic Engineering Technology****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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