

ELECTRONIC ENGINEERING TECHNOLOGY ARTICULATION AGREEMENT GUIDE

North Central State College – AAS in Integrated Engineering Technology

Eastern Michigan University – BS in Electronic Engineering Technology

North Central State College Courses:**Transfer to Eastern Michigan University as:****Ohio Transfer Module + EMU Diversity Requirement (41 credits)**

Students with the OTM 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. Specific courses listed below for the OTM will also satisfy major requirements at NCSC and/or EMU.

1. English Composition: Two courses required

| | | | |
|---------------------------------------|---|-------------------------------------|---|
| ENGL 1010 English Composition I..... | 3 | University Elective | 3 |
| ENGL 1030 English Composition II..... | 3 | University Elective (WRTG 121)..... | 3 |

2. Mathematics: Two courses required

| | | | |
|-----------------------------------------------------|---|----------------------------------------------------|---|
| *MATH 1150 Calculus I (in place of MATH 1050)..... | 5 | MATH 120 Calculus I (4) +1 (sub for MATH 140)..... | 5 |
| *MATH 1151 Calculus II (in place of MATH 1051)..... | 5 | MATH 121 Calculus II (sub for MATH 141)..... | 5 |

3. Arts/Humanities: Two courses from different disciplines

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|-------------------------------------------------|---|---------------------------|---|
| HIST 1010 or 1030 American History I or II..... | 3 | University Elective | 3 |
| Choose from the NCSC Transfer Module | 3 | University Elective | 3 |

4. Social Sciences: Two courses from different disciplines

| | | | |
|--------------------------------------------|---|--------------------------------------------------|---|
| ¹ SOCY 2010 or PSYC 1070 | 3 | Perspectives on a Diverse World Requirement..... | 3 |
| Choose from the NCSC Transfer Module | 3 | University Elective..... | 3 |

5. Natural and Physical Sciences: Three courses from two disciplines (one lab required)

| | | | |
|-----------------------------------------------------|---|----------------------------------------------|---|
| *CHEM 1210 Chemistry I (in place of CHEM 1030)..... | 5 | CHEM 121/122 General Chemistry I (4) +1..... | 5 |
| *PHYS 1110 General Physics I..... | 4 | PHY 221 Mechanics, Sound & Heat | 4 |
| *PHYS 1130 General Physics II | 4 | PHY 222 Electricity and Light (4)-1 | 4 |

NCSC Integrated Engineering Technology Program (33 credits)

| | | | |
|--------------------------------------------------------------|---|-------------------------------------------------------------------|---|
| *ELET 1510 DC Electricity..... | 3 | ELEC 200 Circuit Analysis I..... | 3 |
| *ELEC 1520 AC Electricity | 3 | ELEC 210 Circuit Analysis II..... | 3 |
| *ENGR 1010 Introduction to Engineering (2) and | | | |
| *MECT 1150 Fundamentals of Engineering Design (2)..... | 4 | sub for ET 100 Intro to Engineering Technology (3) +1..... | 4 |
| ² ENRD 2150 Computer Aided Design I..... | 3 | sub for CET 120 (PDD 122 Engineering Graphics)..... | 3 |
| *ELET 1530 Digital Principles | 4 | ELEC 214 Digital Circuit Analysis I (3) +1..... | 4 |
| ELET 2240 Programmable Logic Controllers | 3 | University Elective | 3 |
| ELET 2450 Electronics | 3 | University Elective | 3 |
| MECT 2230 Engineering Materials..... | 3 | University Elective | 3 |
| *MECT 2330 Statics | 3 | sub for MET 211 Statics | 3 |
| MECT 2440 Strength of Materials | 3 | University Elective | 3 |
| MECT 2910 Mechanical Design Project..... | 1 | University Elective | 1 |
| Open Elective (credit that will apply to degree at EMU)..... | 2 | University Elective | 2 |

Credits at NCSC: 76**Credits that apply to EMU's program 76**

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

¹ Satisfies the EMU Perspectives on a Diverse World Requirement. If not transferred must take an approved Perspectives course at EMU.

² Satisfies an EET Restricted Elective. If not transferred, choose an elective from CET 120, CET 220, CET 252, or COSC 246 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 Electronic Engineering Technology Program at EMU

Major Requirements (48 credits)

| | | |
|------------|-----------------------------------------------|---|
| CET 151 | Intro 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 with Calculus..... | 3 |
| 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 Projects..... | 3 |
| MATH 122 | Elementary Linear Algebra..... | 3 |
| QUAL 320 | Industrial Quality Control..... | 3 |
| SET 350W | Engineering Communication..... | 3 |

| | |
|--------------------------------|------------|
| Credits at EMU: | 48 |
| Transfer Credits: | 76 |
| Total Credits: | 124 |

Substitutions

Substitutions for courses transferred from NCSC (ET 100, CET 120, and MET 211) must be submitted on a substitution form to be added to your EMU transcript. Contact your program advisor at EMU to submit a substitution form for you.

Sample sequence for completing program.

Courses may not be offered every semester. See the COT advisor to create a program of study.

| | | |
|--------------------------|---------------------------|---|
| 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 | (12 credits) | |
| CET 427 | FW prereq: ELEC 218..... | 3 |
| ELEC 310 | W prereq: ELEC 300..... | 3 |
| ELEC 420 | W prereq: ELEC 320..... | 3 |
| Restricted Elective | | 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 North Central State College and EMU agree to accept transferable courses from each other and from other regionally accredited institutions. North Central State 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 with the Ohio Transfer Module 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. Students who have not satisfied the OTM must complete EMU's General Education program as applied to transfer students.
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 at the four-year college level, of which 30 hours must be in courses offered by EMU, with 15 hours 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 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. NCSC 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 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, 2018 until August 31, 2021.

This agreement is consistent with the 2018-2019 catalog. Students have until summer 2026 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:**North Central State College**

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