# Individual Program Transfer Articulation Agreement

## Between the Maine Community College System acting by and through

## Eastern Maine Community College

## And the University of Maine System acting by and through

## The University of Maine

## For Transfer From

## Associate in Applied Science in Electrical and Automation Technology

## To

## Bachelor of Science in Electrical Engineering Technology

This Transfer Articulation Agreement is governed by the general Transfer Articulation Agreement Memorandum of Understanding between Eastern Maine Community College (EMCC) and the University of Maine (UMaine). Current students and graduates who have been enrolled in or earned the identified degree from EMCC and are admissible to the University shall be eligible for credit evaluation under the terms of this agreement.

Admissions requirements: Successful Completion of the Associate in Applied Science in Electrical and Automation Technology and a complete application for admission.

Scholarships and Financial Aid dates: Applying before June 1st for a fall entry allows students to be considered for transfer merit awards, June 1st is also the on-time FAFSA filing date for fall transfers

**Side by Side Course Equivalency Table as of December 2024**

Identifies how courses in the Associate in Applied Science in Electrical and Automation Technology at EMCC transfer to the Bachelor of Science in Electrical Engineering Technology at UMaine when the required grade is earned in each course, minimum C- (C for English Composition).

**First Semester**

| EMCC Courses: | | Cr | UMaine Transfer Equivalent: | | Cr |
|---|---|---|---|---|---|
| CAD 101 | Intro to CADD | 3 | EET 115 | Transfers in as SVT 100X Survey Engineering Elective - will substitute for EET 115 but not artistic Gen Ed | 3 |
| EPT 116 | DC Circuits | 3 | EET 111 | Circuit Analysis I | 3 |
| EPT 176 | Programable Controllers | 3 | EET 276 | Programmable Logic Controllers | 3 |
| EPT 245 | Digital Electronics | 3 | EET 275 | Digital Communications | 3 |
| MATH# | Math sequence# – see below MAT 217 Pre-Calculus (recommended) | 3 | MAT 122 | Transfers as MAT 100X Math Elective - will substitute for MAT 122 Pre-Calculus if student successfully completes EMCC MAT 225 | 3 #See below |
| | **Credits** | **15** | | **Credits** | **15** |

**Second Semester**

| EMCC Courses: | | Cr | UMaine Transfer Equivalent: | | Cr |
|---|---|---|---|---|---|
| EPT 123<br>and<br>EPT 173 | Power Distribution<br>and<br>DC/AC Machines | 3<br><br>3 | EET 321<br>and<br>EET 300 | Electro-Mech Energy Conversion<br>and<br>Electrical Engineering Tech Elective | 4<br><br>2 |
| EPT 125 | AC Electricity | 3 | EET 312 | Circuit Analysis II | 3 |
| EPT0167 | Fluid Power Technology | 3 | EET 200X | Electrical Engineering Tech Elective | 3 |
| ENG 101 | English Composition | 3 | ENG 101 | English Composition | 3 |
| | **Credits** | **15** | | **Credits** | **15** |

**Third Semester**

| **EMCC Courses:** | | **Cr** | **UMaine Transfer Equivalent:** | | **Cr** |
|---|---|---|---|---|---|
| EPT 228<br>and<br>EPT 241 | Industrial Electronics<br>and<br>Linear circuits | 3<br><br>3 | EET 241<br>and<br>EET 200X | Linear Circuits<br>and<br>Electrical Engineering Tech Elective | 4<br><br>2 |
| EPT 296 | Automation Projects I | 3 | EET 200X | Electrical Engineering Tech Elective | 3 |
| ENG 215 | Business & Technical Writing | 3 | ENG 317 | Business & Technical Writing | 3 |
| PHY 121<br>and<br>PHY 122 | Physics I<br>and<br>Physics I Lab | 3<br><br>1 | PHY 107 | Technical Physics | 4 |
| #MATH | #Math sequence – see below<br>MAT 225 Calculus I (recommended) | 4 | MATH | #See Below<br>MAT 126 Calculus I | 4 |
| | **Credits** | **20** | | **Credits** | **20** |

**Fourth Semester**

| **EMCC Courses:** | | **Cr** | **UMaine Transfer Equivalent:** | | **Cr** |
|---|---|---|---|---|---|
| EPT 155 | National Electrical Code | 3 | EET 200X | Electrical Engineering Tech Elective | 3 |
| EPT 251 | Control Systems | 3 | EET 200X | Electrical Engineering Tech Elective | 3 |
| EPT 298 | Automation Projects II | 3 | EET 200X | Electrical Engineering Tech Elective | 3 |
| SPE 101 | Oral Communications | 3 | CMJ 103 | Public Speaking | 3 |
| HUM or SOC SCI Elective | Select a course that also meets the UMaine Artistic and Creative Expression Gen Ed requirement | 3 | Artistic & Creative Gen Ed | Select a course that also meets the UMaine Artistic and Creative Expression Gen Ed requirement | 3 |
| | **Credits** | **15** | | **Credits** | **15** |
| | | | | | |
| | **Total Credits:** | | | | |
| | **Credit Transfer Totals:** | **65** | | | **65** |

Special Notes:

- A minimum grade of C- (or C for English Composition) is required for transfer credit to be awarded.
- EET majors must accumulate a GPA of 2.0 in all required EET classes.
- To be able to complete the UMaine BS EET program in a timely sequence, students should complete Pre-Calculus, Calculus I, and Calculus II before semester 6. Students should carefully plan their math courses with their academic advisor.

- **# Math sequence: UMaine suggested course sequence at EMCC:**

| EMCC Courses: | | Cr | UMaine Transfer Equivalent: | | Cr |
|---|---|---|---|---|---|
| MAT 217 | Pre-Calculus | 3 | MAT 100X | Mathematics Elective – will substitute for MAT 122 Pre-Calculus if student successfully completes EMCC's MAT 225 | 3 |
| MAT 225 | Calculus I | 4 | MAT 126 | Calculus I | 4 |
| MAT 226 | Calculus II - (can be taken the summer before attending UMaine or in the first semester at UMaine from EMCC with Domestic Study Away Form) | 4 | MAT 226 | Calculus II | 4 |

*Courses taken at EMCC in which the student did not earn the required grade to satisfy either transfer credit or degree requirements would need to be retaken at either UMaine or EMCC to earn the grade required to count toward the degree at UMaine. Once enrolled at UMaine, the student would need to seek permission from his or her advisor and complete a domestic study away form to alert Student Records if they plan to take any courses at EMCC.*

**Black Bear Advantage Program:**

UMaine offers a concurrent enrollment program for EMCC students who have previously been offered admission to UMaine and are pursuing EMCC degrees that have articulation agreements with UMaine programs, such as this one for Electrical and Automation Technology with Electrical Engineering Technology. Students complete a Black Bear Advantage Participation Form, and if approved, agree to co-enroll in a UMaine course (often online) each semester while attending EMCC full-time. Students in the program will be assigned a UMaine academic advisor to assist them with academic planning while attending EMCC. Black Bear Advantage students can participate in UMaine student life activities, attend UMaine athletic events and take advantage of UMaine support services. They may qualify for up to a $2,000 one-time merit scholarship when they officially transfer to UMaine (depending on how many semesters they were co-enrolled at UMaine while attending EMCC). Additional details and the participation form are available on UMaine' s Black Bear Advantage web page: https://go.umaine.edu/transfer-to-umaine/black-bear-advantage/.

UMaine courses suggested for Black Bear Advantage students in the Electrical and Automation Technology program planning to transfer to UMaine's Electrical Engineering Technology program are:

- 1st semester at EMCC: EET115 (UMaine) to be substituted for CAD101(EMCC)
- 2nd semester at EMCC: ENG 101 (UMaine) to be substituted for ENGL 101 (EMCC)
- 3rd semester at EMCC: PHY107(UMaine) to be substituted for PHY121/122 (EMCC)
- 4th semester at EMCC: CMJ 103 (UMaine) to be substituted for SPE101 (EMCC) or PHY108 (UMaine)

**Suggested course sequence for the last 4 semesters at UMaine as of December 2024**

For those who have earned their associate degree in EMCC's Associate in Applied Electrical and Automation Technology – courses may vary for students who transfer before earning their associate degree.

| **Semester 5** | | **Cr** | **Semester 6** | | **Cr** |
|---|---|---|---|---|---|
| EET 422 | Power Systems Analysis | 4 | EET 486 | Project Management | 3 |
| HVSC | General Education Elective | 3 | EET 342 | Advanced Analog Circuit Design | 4 |
| STS 132 | Principles of Statistical Inference | 3 | EET 274 | Introduction to Microcontrollers | 4 |
| MAT 127 | Calculus II at UM or<br>MAT 226 Calculus II at EMCC | 4 | EET 350 | Senior Design Project I | 1 |
| | | | PHY 108 | Technical Physics II | 4 |
| | **Credits** | **14** | | **Credits** | **16** |

| **Semester 7** | | **Cr** | **Semester 8** | | **Cr** |
|---|---|---|---|---|---|
| EET 451 | Senior Design Project II | 2 | EET 452 | Senior Design Project III | 1 |
| MET 433 | Thermodynamics | 3 | EET 484 | Engineering Economics | 3 |
| EET 324 | Network Analysis and Applications | 4 | EET 325 | Design and Applications of Control Systems | 4 |
| EET 405 | Foundations of Engineering, Electrical & Computer | 3 | HVSC | General Education Elective | 3 |
| | | | HVSC | General Education Elective | 3 |
| | **Credits** | **12** | | **Credits** | **14** |

Degree Requirement Notes:

Total minimum degree credit hours required for the Bachelor of Science in Electrical Engineering Technology are **120 credits** consisting of specific degree requirements, specific elective requirements and general education requirements.

Fundamentals of Engineering Exam must be completed (passing not required).

**Students should see their UMaine advisor for approval of ALL electives**

EET majors must accumulate a GPA of 2.0 in all required EET classes

*Transfer students will be accorded the same standards and criteria for admission to a major degree sequence as UMaine students. All applicants accepted to UMaine's baccalaureate programs must fulfill the graduation requirements as identified in UMaine's academic catalog. For up-to-date degree information please check UMaine's online catalog at http://catalog.umaine.edu/. The most recent transfer credit equivalency information is available through the online transfer equivalency listing located at https://peportal.maine.edu/. See appendix A for complete degree requirements.*

Contacts/designee at each campus for more information:

Eastern Maine Community College

Katherine White
Director of Learning & Assessment
kwhite@mainecc.edu

Rick Reardon
Chair, Electrical & Automation Technology
207-974-4634
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University of Maine:

Sharon Oliver
Director of Admissions Operations
207.581.1561
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Holly Smart
Interim Assoc Dir of Transfer Admissions
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207. 581.1601

**Articulation Implementation and Agreement Review**

The Chief Academic Officer designee of the collaborating institutions shall be responsible for implementing this agreement, for identifying and incorporating any changes into subsequent agreements, and for conducting a periodic review of this agreement.

## Signatures to this Agreement

This agreement becomes effective on December 31, 2024, and will be reviewed in 2029 for renewal discussion.

**Eastern Maine Community College:**

Elizabeth Russell
President

Signed by: Elizabeth Russell 3/17/2025
77E97FC397574FC...
Signature date

Lynn Hunter
Academic Dean

Signed by: Lynn Hunter 3/17/2025
CACC91C2FB20456...
Signature date

Rick Reardon
Chair, Electrical & Automation Technology

Signed by: Rick Reardon 3/14/2025
6E64C2665C9D4E6...
Signature date

**University of Maine:**

John C. Volin
Executive Vice President for Academic Affairs & Provost

Signed by: John Volin 3/4/2025
32D1180378D04E8...
Signature date

Kevin Coughlin
Vice President of Enrollment Management

Signed by: Kevin Coughlin 3/4/2025
EB981CBAC66D412...
Signature date

Giovanna Guidoboni
Dean, Maine College of Engineering and Computing

Signed by: Giovanna Guidoboni 3/4/2025
C7185C8C8E004B8...
Signature date

Will Manion
Director of the School of Engineering Technology

DocuSigned by: Will Manion 3/4/2025
527AB9797FB54BD...
Signature date

Paul Villeneuve
Professor, Electrical Engineering Technology

Signed by: Paul Villeneuve 3/4/2025
D528496557A9473...
Signature date

Appendix A

University of Maine Bachelor of Science Degree Electrical Engineering Technology as of December 2024

**First Semester** **Second Semester**

| UMaine | | Cr | | | Cr |
|---|---|---|---|---|---|
| EET 100 | Intro to Electrical Engineering | 4 | EET 111 | Circuit Analysis I | 4 |
| ENG 101 | College Composition | 3 | EET 115 | Creative Design Using CAD | 3 |
| MAT 122 | Pre-Calculus | 4 | MAT 126 | Calculus I | 4 |
| PHY 107 | Technical Physics | 4 | PHY 108 | Technical Physics II | 4 |
| | | **15** | | | **15** |

**Third Semester** **Fourth Semester**

| UMaine | | Cr | | | Cr |
|---|---|---|---|---|---|
| EET 241 | Analog Circuit Fundamentals | 4 | CMJ 103 | Public Speaking | 3 |
| EET 275 | Digital Communications | 4 | EET 274 | Intro to Microcontrollers | 4 |
| EET 276 | Programmable Login Controllers | 4 | EET 342 | Advanced Analog Circuit Design | 4 |
| MAT 127 | Calculus II | 4 | STS 132 | Principles of Statistical Inference | 3 |
| | | **16** | | | **14** |

**Fifth Semester** **Sixth Semester**

| UMaine | | Cr | | | Cr |
|---|---|---|---|---|---|
| EET 312 | Circuits Analysis II | 4 | EET 321 | Electro-Mechanical Energy Conversion | 4 |
| EET 324 | Network Analysis & Applications | 4 | EET 325 | Design & Applications of Control Sys | 4 |
| ENG 317 | Business & Technical Writing | 3 | EET 350 | Senior Design Project i | 1 |
| Elective | Technical Elective | 3 | EET 486 | Project Management | 3 |
| | | | Elective | Technical Elective | 3 |
| | | **14** | | | **15** |

**Seventh Semester** **Eighth Semester**

| UMaine | | Cr | | | Cr |
|---|---|---|---|---|---|
| Elective | EET Technical Elective | 4 | EET 452 | Senior Design Project III | 1 |
| EET 405 | Fund of Engineering: Electrical & Computer | 4 | EET 484 | Engineering Economics | 3 |
| EET 451 | Senior Design Project II | 2 | Gen Ed | Cultural Diversity & International Perspectives | 3 |
| MET 433 | Thermodynamics | 3 | Gen Ed | Population & Environment | 3 |
| Gen Ed | Western Cultural Tradition | 3 | Elective | EET Technical Elective | 3 |
| | | | Elective | Technical Elective | 3 |
| | | **16** | | | **16** |

Fundamentals of Engineering Exam (passing not required)

Students must see their advisor for approval of all electives.

[1]General Education Requirement Elective requirements can be viewed on MaineStreet.

[2] CHE 350 or STS 332 may be substituted for STS 132

[3] EET 484 meets the Ethics and Human Values/Social Context requirements.