

TRANSFER AGREEMENT FOR BACCALAUREATE DEGREE



Southern Maine Community College
and
University of Southern Maine



Statement of Purpose

The purpose of this agreement is to facilitate student academic transfer and provide a smooth transition from Southern Maine Community College (SMCC) to University of Southern Maine (USM). It is recognized that this agreement shall describe the required program of study at SMCC for admission eligibility to University of Southern Maine and the degree program indicated.

Terms & Conditions of Academic Credit Transfer

To: Bachelor of Science in Electrical and Computer Engineering

From: Associate in Science in Engineering

The evaluation and transfer of earned college credits shall be in compliance with state and federal education policies and institutional and academic program accreditation standards pertaining to undergraduate academic transfer. Current students and graduates who have earned degrees from Southern Maine Community College shall be eligible for credit evaluation under the terms of this agreement.

Transfer students will be accorded the same standards and criteria for admission to a major degree sequence as University of Southern Maine students. All applicants accepted to University of Southern Maine's Baccalaureate programs must fulfill the graduation requirements of the granting institution as identified in Appendices A, B, and C.

- **Appendix A** Contains Admission & Graduation Requirements of the Receiving Institution
- **Appendix B** Contains Side By Side Course Equivalency Tables for the academic program listed above
- **Appendix C** Contain a four-semester map of remaining courses to be taken at University of Southern Maine

Information contained in Appendices A, B, and C is accurate for University of Southern Maine Catalog Year 2023-2024 and the current transfer equivalency listing. For current information please check the [UMS Transfer Guide](#) or [MaineStreet](#) for equivalencies, and go to <http://usm.maine.edu/catalogs> for the current course catalog year.

TRANSFER AGREEMENT FOR BACCALAUREATE DEGREE

Articulation Agreement between Southern Maine Community College & University of Southern Maine

APPENDIX A

Admission & Graduation Requirements of the Receiving Institution

This agreement includes specific requirements for admission into a program, outlines requirements, and indicates which degree or diploma can be used to meet program prerequisites as well as general education, major or program, and graduation requirements.

Admissions Requirements

Successful completion of the SMCC **Associate in Science in Engineering**, submission of a completed admission application (if necessary), transcripts and other supporting materials. For coursework to transfer to University of Southern Maine, a student must earn a grade of C- or better.

Requirements for the Bachelor of Science in Electrical or Electrical and Computer Engineering

Remaining required coursework is listed in Appendix C. Student must maintain a cumulative GPA of 2.0 to graduate.

Residency Requirement

For all baccalaureate degrees at the University, a minimum of 30 credit hours, including at least 9 credit hours in the major field at the 200-level or above, must be completed at the University of Southern Maine.

Additional Institutional Contact Information:

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Academic Department Chair (University of Southern Maine)

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APPENDIX B Side by Side Course Equivalency Tables

*Courses represented in italics are required. If subjects in italics in Appendix B are **not** taken at SMCC as part of the AS in Engineering program, the sequence represented in Appendix C cannot be observed and the requirements of the articulation will be considered unfulfilled.*

SMCC AS in Engineering General Education Requirements			University of Southern Maine BS in Mechanical Engineering Equivalencies		
Course	Title	Credits	Course	Title	Credits
ENGL 100 (1)	English Composition	3	ENG 100	College Writing (WRI 1 Core Requirement)	3
ENGL 115 (4)	Introduction to Literature	3	ENG 140	Reading Literature (Cultural Interpretation Core Requirement)	3
MATH 260 (1)	Calculus I	4	MAT 152	Calculus A (Quantitative Reasoning Core Requirement)	4
MATH 270 (2)	Calculus II	4	MAT 153	Calculus B	4
CHEM 131 (1)	Chemistry for Engineers/Lab	4	CHY 13X	Replaces CHY 113/114 for Engineering majors	4
Fine Arts or Humanities Elective (2): <i>Any ARTH course which fulfills the USM International Core Requirement; see list</i>		3	Direct equivalent or elective credit		3
Social Science Elective (4): <i>Any course that fulfills both the USM Socio-Cultural Analysis and Culture, Power, and Equity Core Requirements; see list</i>		3	Direct equivalent or elective credit		3
Total credits		24	Total credits accepted		24

SMCC Major Requirements			USM Equivalencies		
Course	Title	Credits	Course	Title	Credits
COMM 201 (4)	Technical Writing	3	ITP 210	Technical Writing (WRI 3 Core Requirement)	3
CSCI 110 (2)	Principles of Computer Science	4	COS 160/170	Structured Problem Solving: Java	4
ENGL 110 (4)	Oral Communications	3	THE 170	Publics Speaking (Creative Expression Core Requirement)	3
ENGR 100 (1)	Introduction to Engineering	2	GEL 1XX	General Elective	2
ENGR 216 (4)	Circuits I: Steady State Analysis	3	ELE 216	Circuits I: Steady State Analysis	3
ENGR 217 (5)	Circuits II: System Dynamics/Lab*	4	ELE 217/219	Circuits II: System Dynamics/Lab	4
MATH 275 (3)	Introduction to Differential Equations and Linear Algebra	4	EGN 248	Introduction to Differential Equations and Linear Algebra	4
MATH 225 (1)	Discrete Mathematics	3	MAT 145	Discrete Mathematics	3
PHYS 200 (2)	Physics for Engineers I/Lab	4	PHY 121/114	General Physics I/Lab (Science Exploration Core Requirement)	4
PHYS 250 (3)	Physics for Engineers II/Lab	4	PHY 123/116	General Physics II/Lab	4
ENGR 172 (2)	Digital Logic*	4	ELE 172 and EGN 187	Digital Logic and Engineering Tools: PSpice	4, 1
Total Major Credits		38			
Total SMCC Credits		62	Total Credits granted		63

Numbers in parentheses after SMCC course prefix denote semester course must be taken in order to maintain course rotation.

*For the purposes of this agreement, students who have completed both SMCC ENGR 216/217 and ENGR 172 will be granted credit for USM EGN 187.

APPENDIX C1

Remaining University of Southern Maine Degree Requirements

From SMCC AS in Engineering to USM BS in Electrical and Computer Engineering, Electrical Engineering Track

Year Three Fall		Year Three Spring	
Course	Credit	Course	Credit
MAT 252 Calculus C	4	EGN 304 Engineering Economics (Social Responsibility and Citizenship Core Requirement)	3
ELE 314 Linear Signals and Systems	3	MAT 380 Theory of Probability and Statistics	3
WRI 2 Core Requirement	3	ELE 271 Microprocessor Systems	4
ELE 323 Electromechanical Energy Conversion	3	ELE 262 Physical Electronics	3
EGN Elective	3	EGN 325/329 Control Systems/Lab	4
Semester Credits	16	Semester Credits	17

Year Four Fall		Year Four Spring	
Course	Credit	Course	Credit
EGN 401 Senior Design Project I (Engaged Learning Core Requirement)	3	ELE 486/489 Digital Signal Processing/Lab	4
ELE 351 Electromagnetic Fields	3	ELE 343 Electronics II	4
ELE 342 Electronics I	4	EGN 483 Communications Engineering	3
EGN Elective	3	EGN 402 Senior Design Project II (Capstone Core Requirement)	3
EGN Elective	3	EGN Elective	3
2 Engineering Tools Courses [^]	2		
Semester Credits	18	Semester Credits	17
Total University of Southern Maine credits: 68			
Total SMCC and University of Southern Maine credits: 131			

[^]Electrical and Computer Engineering majors must take SolidWorks as one of their two required Engineering Tools courses.

APPENDIX C2

Remaining University of Southern Maine Degree Requirements

From SMCC AS in Engineering to USM BS in Electrical and Computer Engineering, Computer Engineering Track

Year Three Fall		Year Three Spring	
Course	Credit	Course	Credit
MAT 252 Calculus C	4	EGN 304 Engineering Economics (Social Responsibility and Citizenship Core Requirement)	3
ELE 314 Linear Signals and Systems	3	MAT 380 Theory of Probability and Statistics	3
WRI 2 Core Requirement	3	ELE 271 Microprocessor Systems	4
ELE 471 Embedded Systems	4	ELE 262 Physical Electronics	3
EGN Elective	3	COS 226 Data Structures and Algorithms	4
Semester Credits	17	Semester Credits	17

Year Four Fall		Year Four Spring	
Course	Credit	Course	Credit
EGN 401 Senior Design Project I (Engaged Learning Core Requirement)	3	ELE 486/489 Digital Signal Processing/Lab	4
COS 450 Operating Systems	3	COS 455 Computer Architecture and Organization	3
ELE 342 Electronics I	4	EGN 483 Communications Engineering	3
EGN Elective	3	EGN 402 Senior Design Project II (Capstone Core Requirement)	3
EGN Elective	3	EGN Elective	3
2 Engineering Tools Courses [^]	2		
Semester Credits	18	Semester Credits	16

Total University of Southern Maine credits: 68

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