

Transfer Articulation Agreement for Baccalaureate Degree
between
Southern Maine Community College
and
University of Southern Maine

Statement of Purpose

Southern Maine Community College (SMCC) and the University of Southern Maine (USM) have entered into this transfer articulation agreement. The purpose of this agreement is to facilitate student academic transfer and provide a smooth transition from a two-year community college to a university. It is recognized that this agreement shall describe the required program of study at SMCC for admission eligibility to USM and the Baccalaureate Degree Program indicated.

Terms and Conditions of Academic Credit Transfer

To: **Bachelor of Science in Mechanical Engineering**
(Name of USM Academic Program/Degree)

From: **Associate of Science in Engineering**
(Name of SMCC Academic Program/Degree)

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 USM students. All applicants accepted to USM's Baccalaureate programs must fulfill the graduation requirements of the granting institution as identified in Appendices A, B, & 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 Contains a four semester map of remaining courses to be taken at USM

(Important Note: The information contained in Appendices A, B, & C is accurate for Catalog Year 2016-2017 and the current transfer equivalency listing. For up to date information please check MaineStreet for transfer equivalencies, and <http://usm.maine.edu/catalogs> for the current course catalog year.

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APPENDIX A

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 of Science in Engineering, submission of completed admission application, transcripts and other supporting materials. For coursework to transfer to USM, a student must earn a grade of C- or better. For a list of application instructions and checklist: <http://usm.maine.edu/admit/application-instructions>

Requirements for the USM Bachelor of Science in Mechanical Engineering: Remaining required coursework is listed in Appendix C. Student must maintain a cumulative GPA of 2.0 in engineering courses, and an overall GPA of 2.0.

USM Residency Requirement: At minimum, thirty (30) of the last forty-five (45) credits of a student's baccalaureate course load must be completed at USM.

APPENDIX B

Italicized directions required. If italicized actions are not completed, the sequence that appears in Appendix C cannot be guaranteed.

SMCC AS in Engineering General Education Requirements			USM Equivalencies		
Course	Title	Credits	Course	Title	Credits
ENGL 100 (1)	English Composition	3	ENG 100	College Writing	3
ENGL 115 (2)	Introduction to Literature	3	ENG 140	Reading Literature (Cultural Interpretation Core Requirement)	3
FIGS 100 (1)	Freshman Interest Groups		See ENGR 100 under Major Requirements		
MATH 260 (1)	Calculus I	4	MAT 152	Calculus A (Quantitative Analysis Core Requirement)	4
MATH 270 (2)	Calculus II	4	MAT 153	Calculus B (Cluster Core Requirement 1 of 3)	4
CHEM 131 (1)	Chemistry for Engineers/Lab	4	CHY 1XX	Replaces CHY 113/114	4
Fine Arts or Humanities Elective (3): <i>Any ARTH class 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 Diversity Core Requirements; see list</i>		3	Direct equivalent or elective credit		3
Total credits		24	Total credits accepted		24

SMCC AS in Engineering Major Requirements			USM Equivalencies		
Course	Title	Credits	Course	Title	Credits
COMM 201 (2)	Technical Writing	3	ITP 210	Technical Writing	3
CSCI 110 (1)	Principles of Computer Science	4	COS 160/ COS 170	Structured Problem Solving: Java/Lab	4
ENGL 110 (4)	Oral Communications	3	THE 170	Public Speaking (Creative Expression Core Requirement)	3
ENGR 100 (1)	Introduction to Engineering	3	EYE 112	Built Environment: Energy (equivalency granted only when both ENGR 100 and FIGS 100 are taken)	3
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/ ELE 219	Circuits II: System Dynamics/Lab	4
MATH 275 (3)	Introduction to Differential Equations and Linear Algebra	4	EGR 248	Introduction to Differential Equations and Linear Algebra	4
MATH 280 (4)	Calculus III	4	MAT 252	Calculus C (Cluster Core Requirement 2 of 3)	4
PHYS 200 (2)	Physics for Engineers I/Lab	5	PHY 121/ PHY 114	General Physics I/Lab (Science Exploration Core Requirement)	5
PHYS 250 (3)	Physics for Engineers II/Lab	5	PHY 123/ PHY 116	General Physics II/Lab	5
Mechanical Engineering Option					
ENGR 200 (3)	Engineering Statics	3	MEE 150	Applied Mechanics: Statics	3
ENGR 230 (3)	Thermodynamics I: Laws and Properties	3	MEE 230	Thermodynamics 1: Laws and Properties	3
ENGR 250 (4)	Strength of Materials	3	MEE 251	Strength of Materials	3
Total Major Credits		47			
Total Credits Required for Degree		71	Total Credits Accepted		71

Numbers in parentheses after SMCC course prefix denote semester course must be taken in order to maintain a course load ≥ 18 credits.

APPENDIX C

Remaining USM Degree Requirements

from SMCC AS in Engineering to USM Bachelor of Science in Mechanical Engineering

[Assumes students complete required Mathematics, Science, Social Science, Fine Arts and Humanities electives at SMCC as listed in Appendix B.]

Year Three Fall		Year Three Spring	
Course	Credit	Course	Credit
EGN 260 Materials Science for Engineers	3	EGN 301 Junior Design Project	3
MEE 331/339 Thermodynamics 2: Flows and Cycles/Lab	4	MAT 380 Theory of Probability and Statistics (Cluster Core Requirement 3 of 3)	3
MEE 259 Laboratory	1	MEE 270 Applied Mechanics: Dynamics	3
ELE 323 Electromechanical Energy Conversion	3	MEE 372 CAD Machine Elements	4
EGN Elective	3	EGN 304 Engineering Economics	3
Semester Credits	14	Semester Credits	16

Year Four Fall		Year Four Spring	
Course	Credit	Course	Credit
MEE 360 Fluid Mechanics	3	EGN 402 Senior Design Project	3
MEE 373 Design of Machines and Mechanisms	4	MEE 374/379 Theory and Applications Vibrations/Lab	4
EGN Elective	3	MEE 432/439 Heat Transfer/Lab	4
Ethical Inquiry, Social Responsibility, and Citizenship	3	EGN Elective	3
		EGN Elective	3
Semester Credits	13	Semester Credits	17
USM Credits: 60			
SMCC and USM Credits: 131			