# 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 Industrial 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** Contains 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.

Agreement Dates: May 2023 – May 2026

# 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. For a list of application instructions and checklist: http://usm.maine.edu/admit/application-instructions.

### Requirements for the Bachelor of Science in Industrial 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:

**Academic Department Chair (Southern Maine Community College)**

Name: Adam Tambone E-mail: atambone@smccme.edu

**Academic Department Chair (University of Southern Maine)**

Name: Carlos Lück E-mail: carlosl@maine.edu

# 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 |
| SOCI 100 (5) | Introduction to Sociology | 3 | SOC 100 | Introduction to Sociology (Socio-Cultural Analysis Core Requirement) | 3 |
| Fine Arts or Humanities Elective (2): *Any ARTH course which fulfills the USM Culture, Power, and Equity Core Requirement; see list* | | 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 200 (3) | Engineering Statics | 3 | MEE 150 | Applied Mechanics: Statics | 3 |
| ENGR 230 (3) | Thermodynamics I: Laws and Properties | 3 | MEE 230 | Thermodynamics I: Laws and Properties | 3 |
| **Total Major Credits** | | **40** | | | |
| **Total SMCC Credits** | | **64** | **Total Credits granted** | | **64** |

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

# APPENDIX C

## Remaining University of Southern Maine Degree Requirements From SMCC AS in Engineering to University of Southern Maine Bachelor of Science in Industrial Engineering

| Year Three Fall | | Year Three Spring | |
|---|---|---|---|
| **Course** | **Credit** | **Course** | **Credit** |
| MAT 380 Probability and Statistics (Summer between years two and three) | 3 | EGN 304 Engineering Economics (Social Responsibility and Citizenship Core Requirement) | 4 |
| ITP 230 Project Management or BUS 373 Project Management (International Core Requirement) | 3 | MAT 383 System Modeling and Simulation | 3 |
| MEE 260 Materials Science for Engineers | 3 | IDE 362/369 Human Factors/Lab | 4 |
| WRI 2 Core Requirement | 3 | EGN Elective | 3 |
| MAT 366 Deterministic Models in Operations Research | 3 | | |
| IDE 361 Work Design | 3 | | |
| | | | |
| **Semester Credits (3 in the Summer)** | **18** | **Semester Credits** | **14** |

| Year Four Fall | | Year Four Spring | |
|---|---|---|---|
| **Course** | **Credit** | **Course** | **Credit** |
| EGN 401 Senior Design Project I (Engaged Learning Core Requirement) | 3 | EGN 402 Senior Design Project II (Capstone Core Requirement) | 3 |
| EGN 481 Engineering Statistics | 3 | IDE 462/469 Lean Six Sigma/Lab | 4 |
| IDE 461 Facility Design | 3 | BUS 375 Production/Operations Management | 3 |
| EGN Elective | 3 | 4 Engineering Tools Courses^ | 4 |
| EGN Elective | 3 | EGN Elective | 3 |
| | | | |
| **Semester Credits** | **15** | **Semester Credits** | **17** |
| **Total University of Southern Maine credits: 64**<br>**Total SMCC and University of Southern Maine credits: 128** | | | |

^Industrial Engineering majors must take SolidWorks, Materials Processing and Excel Programming as three of their four required Engineering Tools courses.