

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

Statement of Purpose

Central Maine Community College (CMCC) 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 CMCC for admission eligibility to USM and the Baccalaureate Degree Program indicated.

Terms and Conditions of Academic Credit Transfer

To: **Bachelor of Science in Technology Management: Precision Manufacturing Concentration**
(Name of USM Academic Program/Degree)

From: **Associate of Applied Science in Precision Machining Technology**
(Name of CMCC 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 Central 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 2015-2016 and the current transfer equivalency listing. For up to date information please check

https://peportal.maine.edu/psp/PAPRD89/EMPLOYEE/EMPL/h/?tab=PAPP_GUEST for transfer equivalencies and <http://usm.maine.edu/catalogs> for the current course catalog year.

**Transfer Articulation Agreement for Baccalaureate Degree
MEMORANDUM OF UNDERSTANDING**

between

Central Maine Community College

and

University of Southern Maine

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 Associate of Applied Science in Precision Machining Technology, submission of completed admission application, transcripts, and other supporting materials. For a list of application instructions and checklist: <http://usm.maine.edu/admit/application-instructions>

Requirements for the Bachelor of Science in Technology Management: Precision Manufacturing Concentration: Remaining required coursework is listed in Appendix C. Students in the Technology Management degree programs must take a minimum of 15 credit hours (5 courses) in the Department, and will be required to complete a senior assessment as part of the graduation requirement. Students must maintain a cumulative GPA of 2.0 to graduate.

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

Only courses in which a student has earned a grade of C- or higher are considered for transfer.

CMCC AAS Precision Machining Technology transfer track			USM BS Technology Management Equivalency		
Course	Title	Credits	Course	Title	Credits
ENG 101 OR ENG 105	College Writing OR College Writing Seminar	3 or 4	ENG 100	College Writing	3 or 4
MAT 100	Intermediate Algebra	3	MAT 101	College Readiness Mathematics	3
ENG 201	Technical Writing	3	ITP 210	Technical Writing	3
MAT 105	Geometry and Trigonometry	3	MAT 1XX	Mathematics Elective	3
OHS 102	OHS for General Industry	1	ITT 1XX	Technical Elective	1
	Humanities/Social Science Elective: <i>COM 100 Public Speaking</i>	3	THE 170	Public Speaking (fulfills Creative Expression Core Requirement)	3
	Humanities/Social Science Elective: <i>ECO 201 OR ECO 202 Introduction to Macro- OR Microeconomics</i>	3	ECO 101 OR ECO 102	Introduction to Macro- OR Microeconomics (fulfills Socio-Cultural Core Requirement)	3
	Humanities/Social Science Elective: <i>Any course that fulfills USM Diversity Core Requirement; see list</i>	3	Varies	Direct equivalent or General elective credit	3
<i>PHY 121/122*</i>	<i>Technical Physics I w/Lab*</i>	4	PHY 1XX	Physics Elective (fulfills Science Exploration)	4
Total credits		26 or 27	Total credits accepted		26 or 27

Major Requirements			Major Requirements		
Course	Title	Credits	Course	Title	Credits
PMT 103	Print Reading and Sketching	3	ITT 1XX	Technical Elective	3
PMT 111	Introduction to Lathes	2	ITT 1XX	Technical Elective	2
PMT 115	Intro to Computer Numerical Control Programming	2	ITT 1XX	Technical Elective	2
PMT 116	Milling and Grinding	2	ITT 1XX	Technical Elective	2
PMT 117	CNC Operations	2	ITT 1XX	Technical Elective	2
PMT 121	Intro to Threading Processes	2	ITT 1XX	Technical Elective	2
PMT 122	Work Holding Methods for Milling	2	ITT 1XX	Technical Elective	2
PMT 124	Applied Computer Numerical Control	2	ITT 1XX	Technical Elective	2
PMT 125	CNC Turning Methods	2	ITT 1XX	Technical Elective	2
PMT 210	Geometric Dimensioning & Tolerancing	2	ITT 2XX	Technical Elective	2
PMT 240	2-D MasterCam	2	ITT 2XX	Technical Elective	2
PMT 211	Advanced Threading Processes	2	ITT 2XX	Technical Elective	2
PMT 212	Circular CNC Milling Processes	2	ITT 2XX	Technical Elective	2
PMT 214	Advanced Computer Numerical Control	2	ITT 2XX	Technical Elective	2
PMT 217	Introduction to Toolmaking	2	ITT 2XX	Technical Elective	2
PMT 221	Advanced CNC Turning Processes	2	ITT 2XX	Technical Elective	2
PMT 222	Advanced Milling Processes	2	COR 2XX	Cluster: Professional Practices	2
PMT 227	Advanced Toolmaking Techniques	2	ITT 2XX	Technical Elective	2
PMT 228	Metallurgy	1	COR 2XX	Cluster: Professional Practices	1
PMT 229	Advanced CNC Part II	2	COR 2XX	Cluster: Professional Practices	2
Major Credits		40			40
Total CMCC credits		66 or 67	Total CMCC credits accepted		66 or 67

CMCC courses noted in italics in Appendix B are recommended. If recommendations are not taken as part of the Associate in Applied Science degree, the sequence represented in Appendix C cannot be guaranteed.

*CMCC PHY 121/122 is **not** part of the CMCC required course load for the AAS in Precision Machining; however, it must be completed for the purposes of meeting the requirements for the USM BS in Technology Management.

APPENDIX C

Remaining USM Degree Requirements

For students in CMCC Associate of Applied Science in Precision Machining transferring to USM Bachelor of Science in Technology Management: Precision Manufacturing Concentration

[Assumes student completes recommended courses at CMCC as listed in Appendix B.]

Year Three Fall		Year Three Spring	
Course	Credit	Course	Credit
ITT 221 Power & Energy Processing*	3	ITS 300 Ergonomics/Time Study	3
ITT 181 Computer Applications & Concepts	3	ITT 323 Fluid Power*	3
MAT 120 Statistics (Quantitative Reasoning Core Requirement)	3	MAT 148 Applied Calculus	3
MAT 140 Pre-Calculus	3	ITP 490 Cost Analysis and Control	3
ACC 110 Financial Accounting	3	ITP 230 Project Management (International Core Requirement)	3
Semester Credits	15	Semester Credits	15

Year Four Fall		Year Four Spring	
Course	Credit	Course	Credit
ITP 250 Management Information Systems	3	ITT 427 Applied Automation Engineering*	3
ITP 330 Production Control	3	Cultural Interpretation	3
ITP 340 Fundamentals of Quality	3	GEO or CHY or PHY course	3
Ethical Inquiry Core Requirement	3	ITT 460 Capstone	3
ITT 425 Applied Process Control Engineering*	3	ITS 320 Occupational Safety and Health	3
Semester Credits	15	Semester Credits	16
Total USM credits: 61			
Total CMCC and USM credits: 127 or 128			

*These four classes may be covered by taking the 16-credit CMCC Precision Machining Advanced Certificate. However, full-time student status at USM requires a semester course load of 12 credits or more.