

Transfer Agreements at SMCC



Dear Student,

If you want to earn a bachelor's degree for less, you can save thousands of dollars by starting at SMCC before transferring to a four-year college or university. Our transfer agreements will put you on the right path.

These agreements allow you to pre-plan your college careers so you can avoid taking unneeded credits and spending money on courses that won't count toward a bachelor's degree.

We have transfer agreements with the University of Maine, the University of Southern Maine, the University of New England, Saint Joseph's College and elsewhere in Maine. If you're interested in out-of-state schools, we can simplify your transfer to places such as Johnson & Wales, Southern New Hampshire University, Smith, Wellesley, Mount Holyoke College and more.

If you want to continue your education after graduating from SMCC, our transfer agreements will help get you there.

Start smart at SMCC by avoiding debt and getting the skills and support you need to continue your education through one of our seamless transfer agreements. Then finish strong by getting a four-year degree and earning over \$1 million more over your lifetime. We are here to help you succeed.

Joe Cassidy

President of SMCC

For more information about this specific transfer agreement please view the additional pages in this document.

Please note: These agreements are frequently renewed and may at times be under renewal. If you have any questions or concerns, please contact our **Advising Office** at **207-741-5835** or **transfer@smccME.edu**.

We are here to help your succeed.



**Transfer Articulation Agreement for Baccalaureate Degree
B e t w e e n
Southern Maine Community College
A n d
The University of Maine**

Statement of Purpose

Southern Maine Community College (SMCC) and The University of Maine (UM) 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 The University of Maine. It is recognized that this agreement shall describe the required program of study at SMCC for admission eligibility to UM and one of the 11 Baccalaureate Degree Programs indicated.

Terms and Conditions of Academic Credit Transfer

To: Bachelor of Science in Biological Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Computer Engineering, Bachelor of Science in Construction Management Technology, Bachelor of Science in Electrical Engineering, Bachelor of Science in Electrical Engineering Technology, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Mechanical Engineering Technology, Bachelor of Science in Engineering Physics, Bachelor of Science in Surveying Engineering Technology – Includes all undergraduate degree programs in the College of Engineering at UM.

From: Associate in Science in Pre-Engineering at SMCC

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 from SMCC to UM will be accorded the same standards and criteria for admission to a major degree sequence as UM students. All applicants accepted to a UM Baccalaureate program must have fulfilled the entrance requirements identified in Appendices A & B.

Appendix A contains Admission Requirements for the College of Engineering at the University of Maine.

Appendix B contains the requirements for the two-year Pre- Engineering Program at Southern Maine Community College.

Appendix C contains detailed curricula for each of the 11 degree programs at The University of Maine.



Transfer Articulation Agreement for Baccalaureate Degree
Memorandum of Understanding

B e t w e e n
Southern Maine Community College
A n d
University of 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:

The admission requirements to the College of Engineering at the University of Maine for students transferring from Southern Maine Community College include successful completion of the Pre-Engineering Program at SMCC, with a minimum average grade point average of 2.5, and having applied for admission to UM.

Requirements for the Bachelor's Degree from any one of the 11 programs in The College of Engineering at the University of Maine are described in Appendix C. Each program requires completion of the Pre-Engineering Program at SMCC with a minimum grade point average grade of 2.5 and completion of all requirements indicated for that program in Appendix C with grade and average requirements as set in that department.

Additional Institutional Contact Information regarding the Pre-Engineering Program at Southern Maine Community College can be obtained from:

Academic Department Chair (Southern Maine Community College)

Name: Mark Lundy e-mail: mlundy@smccme.edu Phone: 741-5885

Additional Information regarding each of the engineering degree programs at The University of Maine can be obtained from:

- Prof. Hemant P. Pendse, Chemical and Biological Engineering
- Prof. Eric N. Landis, Civil and Environmental Engineering
- Prof. Don Hummels, Electrical and Computer Engineering
- Prof. Mohsen Shahinpoor, Mechanical Engineering
- Prof. David Batuski, Engineering Physics
- Prof. Scott Dunning, Director School of Engineering Technology



Transfer Articulation Agreement for Baccalaureate Degree

Memorandum of Understanding

B e t w e e n

Southern Maine Community College

A n d

University of Maine

.....

APPENDIX B

Pre-Engineering Program at SMCC

PreEngineering At SMCC for Students Transferring to UMaine

First Year			
Fall Semester		Spring Semester	
ENGL 100 English Composition (UM ENG 101)	3	ENGL 115 Intro to Literature (UM ENG 100X- Meets Arts Req)	3
MATH 190 Pre-Calc (UM MAT 122)	3	MATH 260 Calculus I (UM MAT 126)	4
PHYS 150 College Physics and Lab I (UM PHY 111)	4	PHYS 155 College Physics and Lab II (UM PHY 112)	4
ENGR 100 Introduction to Engineering*	2	CMPT 275 C+ Programing	3
Arts and Humanities/Social Science (UM Course Equiv/Rec Below)	3	Arts and Humanities/Social Science (UM Course Equiv/Rec Below)	3
	15		17

Sophomore Year			
Fall Semester		Spring Semester	
MATH 270 Calculus II (UM MAT 127)	4	ENGR 250 Strength of Materials*	3
CHEM 120 General Chem I and Lab (UM CHY 121/123)	4	CHEM 125 General Chem II and Lab (UM CHY 122/124)	4
ENGR 200 Engr. Statics*	3	Arts and Humanities/Social Science (UM Course Equiv/Rec Below)	3
ELEC 110 DC Circuits (UM EET 111)	3	ELEC 140 AC Circuits	3
Program Specific Elective	3	Program Specific Elective	3
	17		16

* Course under development as of June 2011

The PreEngineering curriculum puts students at SMCC in a position to apply for entrance in any of the 11 Engineering Programs at the University of Maine.

These programs include:

- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Computer Engineering
- Chemical Engineering
- Biological Engineering
- Engineering Physics
- Mechanical Engineering Technology
- Electrical Engineering Technology
- Survey Engineering Technology
- Construction Management Technology

The two year PreEngineering program provides students with a starting point in each curriculum that varies with the program requirements. Detailed Programs of Study are available for all eleven degree paths. All degree programs are designed so that they can be completed in 2 years at SMCC and 2 to 3 years at UMaine. **No later than the end of the first year of study at SMCC, students are required to speak with an advisor in their program of interest at UMaine in order to learn more about program requirements and the duration of the course of study.**

Each student should choose two program specific electives at SMCC to better prepare for their course of study.

Students planning to enroll in **Electrical Engineering, Electrical Engineering Technology or Engineering Physics** should choose electives from among:

- ELEC 120 Digital Electronics
- ELEC 130 Programmable Logic Controllers
- ELEC 170 Three Phase Circuits

Students planning to enroll in **Computer Engineering** should choose electives from among:

- CMPT 100 Introduction to Computer Technology
- CMPT 110 Introduction to Data Bases
- CMPT 125 Structured Programming (UM's ECE 177)

Students planning to enroll in **Construction Management Technology** should choose electives from among:

- ECON 120 Microeconomics (UM's ECO 120)
- ECON 125 Macroeconomics (UM's ECO 121)
- ACCT 105 Financial Accounting (UM BUA 201)
- OSHA 120 Construction Safety (UM CET 224)

Students planning to enroll in **Survey Engineering Technology** should choose electives from among:

- ECON 120 Microeconomics (UM's ECO 120)
- ECON 125 Macroeconomics (UM's ECO 121)
- ACCT 105 Financial Accounting (UM BUA 201)

Students planning to enroll in **Biological Engineering** should choose electives from among:

- BIOL 120/121 Biology I (UM's BIO 100)
- BIOL 125/126 Biology I (UM's BIO 200)

Students planning to enroll in **Mechanical Engineering Technology** should choose electives from among:

- AEDD 105 AutoCAD
- AEDD 160 CAD Applications (UM's MET 121)
- ELEC 240 Fluid Power Systems (UM's MET 362)
- ENGL 110 Oral Communications (UM's CMJ 103)

It is recommended that MET students select humanities at SMCC that will cover Pop and Envir, Cult Div and Intern Pers, or West Cult Trad at UM.

Students planning to enroll in **Civil Engineering** should choose electives from among:

- BIOL 120/121 Biology I (UM's BIO 100)
- AEDD 105 AutoCAD
- AEDD 160 CAD Applications (UM's MET 121)
- AEDD 185 Civil CAD (UM's 100X)

Students planning to enroll in **Mechanical Engineering or Chemical Engineering** should choose electives from among:

- ELEC 130 Programmable Logic Controllers
- ELEC 240 Fluid Power Systems (UM's MET 362)

Humanities/Social Science Recommendations

The pre engineering program at Southern Maine Community College requires four Arts and Humanities and Social Science classes beyond ENGL 100. At the University of Maine these four classes will be combined with two more classes in this general area resulting in 18 credits of class work in the general area of Human Values and Social Context (HVSC). At the University of Maine these six classes must be organized to provide the student with a recognized experience in six designated areas. Please note some classes satisfy more than one HVSC area.

The six designated HVSC areas include:

- Western Cultural Tradition
- Social Contexts and Institutions
- Cultural Diversity and International Perspectives
- Population and Environment
- Artistic and Creative Expression (covered by ENGL 115 first year)
- Ethics

Students choosing humanities and social science classes at SMCC are advised to seek those which cover a diversity of HVSC topic areas at the University of Maine. The attached table provides a sample of some of the classes at SMCC which can be used to satisfy HVSC requirements at the University of Maine. While the attached list is substantial, there are many other classes that will fill HVSC requirements. The Student Records Office at The University of Maine provides access to a website (no password required) that shows the many SMCC classes that transfer to Umaine, and which HVSC topics are satisfied. It is realistic for a student to enter the University of Maine with 3 or 4 HVSC topic areas satisfied.

Social Context	UM Class
BHHS 150 Special and Diverse Pop.	SWK 100X
BUS 200 Business Law I	BUA 220
ECON 120/125 Micro/Macro Economics	ECO 120/121
HIST 130/135 US History I/II	HTY 103/104
POLS 105 Intro to American Gov	POS 100
PSY 100 Intro to Psychology	PSY 100
PSY 215 Social Psychology	PSY 230
SOC 100 Intro to Sociology	SOC 101
ENGL 110 Oral Communications	CMJ 103
Ethics	
PHI 101 Intro to Philosophy	PHI 102
PHIL 100 Intro to Philosophy	PHI 102
POLS 250 Intro to Political Theory	POS 201
IDS 100 Nature and Culture	EES 100X
Population and Environment	
IDS 100 Nature and Culture	EES 100X
OCEA 105 Elementary Oceanography	SMS 100
ENVR 110 Fund of Environmental Sci	EES 100
Cultural Diversity	
ART 110 Hist. of 20th Cent Art	ARH 100
ARTH 145 Survey of West Art Hist. I	ARH 155
BHHS 150 Special and Diverse Pop.	SWK 100X
MUS 125 World Music	MUL 120
POLS 100 Contemporary World Problems	POS 120



Transfer Articulation Agreement for Baccalaureate Degree

Memorandum of Understanding

B e t w e e n

Southern Maine Community College

A n d

University of Maine

.....

APPENDIX C

Detailed curricula for each degree program at UM

SMCC - Umaine Two Plus Three Engineering Programs

Chemical Engineering - Two Plus Three

First Year - SMCC			
Fall		Spring	
ENGL 100 English Composition (UM ENG 101)	3	ENGL 115 Intro to Literature (UM ENG 100X- Meets Arts Req)	3
MATH 190 Pre-Calc (UM MAT 122)	3	MATH 260 Calculus I (UM MAT 126)	4
PHYS 150 College Physics and Lab I (UM PHY 111)	4	PHYS 155 College Physics and Lab II (UM PHY 112)	4
ENGR 100 Introduction to Engineering*	2	CMPT 275 C+ Programing	3
Arts and Humanities/Social Science (UM Course Equiv/Rec Below)	3	Arts and Humanities/Social Science (UM Course Equiv/Rec Below)	3
Credits	15	Credits	17

Second Year - SMCC			
Fall		Spring	
MATH 270 Calculus II (UM MAT 127)	4	ENGR 250 Strength of Materials*	3
CHEM 120 General Chem I and Lab (UM CHY 121/123)	4	CHEM 125 General Chem II and Lab (UM CHY 122/124)	4
ENGR 200 Engr. Statics*	3	Arts and Humanities/Social Science (UM Course Equiv/Rec Below)	3
ELEC 110 DC Circuits (UM EET 111)**	3	ELEC 140 AC Circuits**	3
Program Specific Elective	3	Program Specific Elective	3
Credits	17	Credits	16

Third Year - Umaine			
Fall		Spring	
CHB 200 Fundamentals of Process Engr	4	CHE 385 Chemical Engr Thermodynamics I	3
CHY 251 Organic Chemistry I	3	CHB 350 Statistical Proc Cntrl & Analysis	3
CHY 253 Organic Chemistry Lab I	2	CHY 252 Organic Chemistry II	3
MAT 228 Calculus III	4	MAT 258 Diff Equ with Linear Algebra	4
		PHY 122 College Physics and Lab (calc based)	4
Credits	13	Credits	17

Fourth Year - Umaine			
Fall		Spring	
CHE 352 Process Control	3	CHE 361 Chemical Engr Lab I	3
CHE 360 Elements of Chemical Engr I	4	CHE 362 Elements of Chemical Engr II	4
CHE 386 Chemical Engr Thermodynamics II	3	CHE 368 Kinetics and Reactor Design	3
Approved Advanced Chemistry Elective	3	Approved Tech Elective I	3
HVSC	3		
Credits	16	Credits	13

Fifth Year - Umaine			
Fall		Spring	
CHE 363 Chemical Engineering Lab II	3	CHE 479 Process Design Projects	4
CHE 477 Elements of Chem Process Design	3	CHB 493 Chem and Biol Engr Seminar	1
CHE 478 Analysis, Simul & Syn of Chem Proc	3	Approved Tech Elective III	3
CHB 493 Chem and Biol Engr. Seminar	0	CHY 472 Physical Chemistry II	3
Approved Tech Elective II	3	HVSC	3
Credits	12	Credits	14

* Courses that need to be developed

** ELEC 110 and 140 replace ECE 209 at UM

ENGR 200 and ENGR 250 will replace MEE 252 for Chem Engr students at UM