Prescribed schedule for students in the Maine Engineering Pathways Program

to USM BS in Electrical Engineering from UMM

Year One @ UMM

Year One Fall		Year One Spring		
Course	Credit	Course	Credit	
UMM Introduction to Engineering	1	Any course that fulfills USM Cultural Interpretation Core Requirement	3	
ENG 101 College Composition	3	MAT 127 Calculus II	4	
MAT 126 Calculus I (Quantitative Reasoning Core Requirement)	4	PHY 122 General Physics II	4	
CHY 101 General Chemistry I (Science Exploration Core Requirement)	4	Any course that fulfills USM Creative Expression Requirement	3	
PHY 121 General Physics I	4	Any course that fulfills USM Socio-Cultural Analysis Core Requirement	3	
Semester Credits	16	Semester Credits	17	
Total UMM credits: 33				

Years Two through Four Mechanical Engineering @ USM

Year Two Fall		Year Two Spring	
Course	Credit	Course	Credit
ELE 216 Circuits 1: Steady-State Analysis	3	ELE 217/219 Circuits 2: System	4
		Dynamics/Lab	
MAT 252 Calculus 2	4	EGN 248 Intro to Differential Equations and	4
		Linear Algebra	
EGN 160 Introduction to Programming: C++ or	4	MAT 380 Theory of Probability and Statistics	3
Java		WAT 380 THEORY OF Probability and Statistics	
ELE 172 Digital Logic	4	ELE 271 Microprocessor Systems	4
		ITP 210 Technical Writing (WRI 3 Core	3
		Requirement)	3
Semester Credits	15	Semester Credits	18

Year Three Fall		Year Three Spring	
Course	Credit	Course	Credit
ELE 323 Electromechanical Energy Conversion	3	WRI 2 Core Requirement	3
EGN 260 Materials Science for Engineers	3	EGN 304 Engineering Economics	3
ELE 314 Linear Signals and Systems	3	Culture, Power, and Equity Core Requirement	3
ELE 342 Electronics 1: Devices and Circuits	4	Engineering Elective 300-level+	3
Ethical Inquiry Core Requirement	3	ELE 343 Electronics 2: Electronic Design	4
Semester Credits	16	Semester Credits	16

Year Four Fall		Year Four Spring	
Course	Credit	Course	Credit
Engineering Elective 300-level+	3	Engineering Elective 300-level+	3
International Core Requirement	3	Engineering Elective 300-level+	3
ELE 351 Electromagnetic Fields	3	EGN 402 Senior Design Project (Engaged	3
	3	Learning Core Requirement)	
Engineering Elective 300-level+	3	EGN 325/329 Control Systems/Lab	4
EGN 401 Senior Design Project and the	3	ELE 486/489 Digital Signal Processing/Lab	4
Engineering Profession	3		
Semester Credits	15	Semester Credits	17
Total USM credits: 97	•	и.	

Total UMM and USM credits: 130

In order to transfer to USM, students must successfully complete a minimum of 30 credits at a participating campus (UMPI, UMF, UMA, UMM). They should have earned a C or better in core mathematics and science courses. Transfer students missing one or more of these core courses will be considered on a case-by-case basis. The minimum overall GPA requirement to transfer into a USM engineering program is 2.5.

Admissions and High School Curriculum expectations: Suggested minimum admissions requirements are combined SAT (Math + Verbal) of 1000, and a Math SAT score of 550. A high school GPA of 2.5 or greater is recommended. Applicants should have completed two years of high school lab sciences and three years of mathematics including Algebra I, Algebra II, and Geometry. In addition, a year of Pre-Calculus is required. If the latter requirement is not met, students would likely need to take Pre-Calculus in the first semester of the MEPP rather than Calculus I. This could delay student's overall progress by up to one year.

Students already matriculated at UMA, UMF, UMPI, or UMM: Students who are already enrolled in one of the participating campuses and wish to change majors into the program may do so provided they earn a C or better in Pre-Calculus and a lab science course, and have an overall college GPA of 2.0 or greater.