

Prescribed schedule for UMPI students in the Maine Engineering Pathways Program

USM Mechanical Engineering

Year One @ UMPI

Year One Fall		Year One Spring	
Course	Credit	Course	Credit
UMPI Equivalent to USM Entry Year Experience (EYE 112) -- in development	1	Any course that fulfills USM Cultural Interpretation Core Requirement	3
ENG 101 College Composition	3	MAT 132 Calculus II	4
MAT 131 Calculus I (Quantitative Reasoning Core Requirement)	4	PHY 154 General Physics II	4
CHY 111 General Chemistry I (Science Exploration Core Requirement)	4	COS 105 Computer Programming I	3
PHY 153 General Physics I	4	Any course that fulfills USM Socio-Cultural Analysis Core Requirement	3
Semester Credits	16	Semester Credits	17
Total UMPI 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 Dynamics/Lab	4
MAT 252 Calculus 2 (Cluster Core Requirement 1 of 3)	4	EGN 248 Intro to Differential Equations and Linear Algebra	4
MEE 150 Applied Mechanics: Statics	3	MAT 380 Theory of Probability and Statistics (Cluster Core Requirement 2 of 3)	3
THE 170 Public Speaking (Creative Expression Core Requirement)	3	MEE 270 Applied Mechanics: Dynamics	3
MEE 230 Thermodynamics 1: Laws and Properties	3	ITP 210 Technical Writing (Cluster Core Requirement 3 of 3)	3
Semester Credits	16	Semester Credits	17

Year Three Fall		Year Three Spring	
Course	Credit	Course	Credit
ELE 323 Electromechanical Energy Conversion	3	EGN 301 Junior Design Project	3
EGN 260 Materials Science for Engineers	3	EGN 304 Engineering Economics	3
MEE 251/259 Strength of Materials/Lab	4	Diversity Core Requirement	3
MEE 360 Fluid Mechanics	3	MEE 372 Computer-Aided Design of Machine Elements	4
Ethical Inquiry Core Requirement	3	MEE 432/439 Heat Transfer/Lab	4
Semester Credits	16	Semester Credits	17

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
MEE 373 Design of Machines and Mechanisms	4	EGN 402 Senior Design Project	3
MEE 331/339 Thermodynamics 2: Flows and Cycles/Lab	4	MEE 374 Theory and Applications of Vibrations	4
		Engineering Elective 300-level+	3
Semester Credits	14	Semester Credits	16
Total USM credits: 96			
Total UMPI and USM credits: 129			

In order to transfer to UM or 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 UM or USM engineering program is 2.5; students with a cumulative GPA greater than 2.0 may transfer into one of UM's four engineering technology programs.

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.