

UNIVERSITY OF SOUTHERN MAINE  
**Mechanical Engineering**  
 Curriculum – Suggested Sequence – Approved 1/29/2008

First Year

Fall Semester			Spring Semester		
EGN 100	Introduction to Engineering	3	MEE 150	Applied Mechanics: Statics	3
PHY 121K	General Physics I	4	PHY 123	General Physics II	4
PHY 114K	Introductory Physics Laboratory I	1	PHY 116	Introductory Physics Laboratory II	1
MAT 152D	Calculus A	4	MAT 153	Calculus B	4
ENG 100C	English Composition	3	COS 160	Structured Problem Solving: Java	3
PHI 1__E	Philosophy Core	3	COS 170L	Structured Programming Laboratory	1
<b>Total Credits</b>			<b>Total Credits</b>		
<b>18</b>			<b>16</b>		

Second Year

Fall Semester			Spring Semester		
ELE 216	Circuits I: Steady-State Analysis	4	ELE 217	Circuits II: System Dynamics	4
MEE 230	Thermodynamics I	3	MEE 251	Strength of Materials	3
CHY 113K	Principles of Chemistry I	3	MEE 270	Applied Mechanics: Dynamics	3
CHY 114K	Laboratory Techniques I	1	MAT 350	Differential Equations	4
MAT 252	Calculus C	4	ECO 102J	Introduction to Microeconomics <sup>1</sup>	3
ECO 101J	Introduction to Macroeconomics <sup>1</sup>	3			
<b>Total Credits</b>			<b>Total Credits</b>		
<b>18</b>			<b>17</b>		

Third Year

Fall Semester			Spring Semester		
ELE 323	Electromechanical Energy Conversion	4	EGN 301	Design Project I: Engineering Profession	2
MEE 332	Thermal Systems	3	EGN 362	Materials Science	3
MEE 341	Transport Phenomena Laboratory	1	MEE 373	Controlled Mechanisms	4
MEE 360	Fluids	3		Engineering Elective <sup>2</sup>	3
MEE 372	Mechanisms	4	MAT 380	Theory of Probability and Statistics	3
THE 170F	Public Speaking	3		Humanities (G,H,I) core <sup>3</sup>	3
<b>Total Credits</b>			<b>Total Credits</b>		
<b>18</b>			<b>18</b>		

Fourth Year

Fall Semester			Spring Semester		
EGN 402	Design Project II	3	EGN 304	Engineering Economics <sup>1</sup>	3
	General Technical Elective <sup>2</sup>	3	EGN 403	Design Project III	3
MEE ____	Mechanical Engineering Elective <sup>2</sup>	3	MEE ____	Mechanical Engineering Elective <sup>2</sup>	3
	Humanities (G,H,I) core <sup>3</sup>	3		Humanities (G,H,I) core <sup>3</sup>	3
<b>Total Credits</b>			<b>Total Credits</b>		
<b>12</b>			<b>12</b>		

**Program Total Credits** **126**

- Notes: <sup>1</sup> Social sciences requirement: ECO101J and ECO 102J *or* EGN304 + any two J core courses.  
<sup>2</sup> Four technical electives are required, with at least 2 in the major and at least 3 in engineering. EGN courses count as native to either engineering major.  
<sup>3</sup> G, H, I core group: 2 in the same letter or topically related. One writing intensive course, W core, must be taken.