

## Mechanical Engineering Curriculum Fall 2006-Spring 2007 (5 Year Plan)

**CORE:** UI (see page 4) **State Board:** 12crs H/SS (6crs of each, SS must be in 2 disciplines)

First Year												
		cert	credit	grade	plan			cert	credit	grade	plan	
Math 143^	Pre-calc, Alg, and Analytic Geom		3			Math 170	Analytic Geom I and Calc		4			
Engl 101^	Intro to College Writing		3			Engl 102	Coll Writing and Rhetoric		3			
Chem 050	Chemistry Fundamentals		0			Chem 111	Principles of Chemistry I		4			
Core Disc.	Freshman Disc. Part I		4			Core Disc.	Freshman Disc. Part 2		3			
Comm 101	Fund of Public Speaking		2									
<b>TOTAL</b>					<b>12</b>	<b>TOTAL</b>					<b>14</b>	
Second Year												
		cert	credit	grade	plan			cert	credit	grade	plan	
Math 175	Analytic Geom II and Calc		4			Math 275	Analytic Geom III and Calc		3			
ME 123(F)	Intro to ME Design		3			ME 225	Intro to Machine Design		2			
MSE 201(F)	Engr Materials		3			Engr 210	Engr Statics		3			
Phys 211	Engr Phys I, lec		3			Phys 213 (S)	Engr Phys III, lec		3			
Phys 211	Engr Phys I, lab		1			Phys 213 (S)	Engr Phys III, lab		1			
<b>TOTAL</b>					<b>14</b>	<b>TOTAL</b>					<b>12</b>	
Third Year												
		credit	grade	plan			credit	grade	plan			
Engr 350	Engr. Mech of Materials	3			ME 223	Mechanical Design Analysis	3					
Phys 212	Engr Phys II, lec	3			Engr 240	Intro to Elec Circuits	3					
Phys 212	Engr Phys II, lab	1			Engr 320	Engr Thermo and Heat Transfer	3					
Math 310	Ord Differential Equations	3			Engr 335	Engr Fluid Mechanics	3					
Engr 220	Engr Dynamics	3			CT	ME Certification	0					
<b>TOTAL</b>					<b>13</b>	<b>TOTAL</b>					<b>12</b>	
Fourth Year												
		credit	grade	plan			credit	grade	plan			
ME 301	Computer Aided Engineering	3			ME 324(S)	Dyn Analysis in Mach Design	3					
ME 313	Dyn Modeling of Engr Systems	3			ME 325(S)	Machine Design	3					
ME 341(F)	Intermediate Mechanics	3			ME 330	Exp Methods for Engineers	3					
Econ*		3			ME 345	Heat Transfer	3					
Ethics**		3			TE***		3					
<b>TOTAL</b>					<b>15</b>	<b>TOTAL</b>					<b>15</b>	
Fifth Year												
		credit	grade	plan			credit	grade	plan			
ME 424(F)	Mechanical Sys Design I	3			ME 426(S)	Mechanical Sys Design II	3					
ME 430	Senior Lab	3			TE***		3					
ME 435(F)	Thermal Systems Design	3			TE***		3					
TE***		3			Cluster****		3					
Engl 317	Technical Writing	3			CE 411	FE Review	1					
<b>TOTAL</b>					<b>15</b>	<b>TOTAL</b>					<b>13</b>	
Other Courses - Necessary or Taken		credit	grade	plan								
Engl 090	Developmental Writing	0			<ul style="list-style-type: none"> <li>• Graduation Requirement: you may accumulate no more than 5 grades at D or F in the mathematics, science, or engineering courses used to satisfy graduation requirements (repeats included).</li> <li>• To pass CT, you may accumulate no more than 3 grades at D or F in the courses marked with a "cert" box (repeats included). You must also earn at least 5 grades better than a C in the courses marked with a "cert" box.</li> </ul>							
Math 108	Intermediate Algebra	3										

\*Econ 201, Econ 202 or Econ 272.

ME DEPT & UNIV MINIMUM CR HOURS REQUIRED: 129

\*\*Phil 103, Phil 252

\*\*\*See Technical Elective appendix for choices--two must be ME lecture-based courses, and two may be chosen from the rest of the list.

\*\*\*\*Completion of H/S, cluster, upper division, and international course to meet university and departmental requirements.

^ Math 143 and Engl 101 do not count towards the ME Department requirement of 129 credits for graduation.