

SPRING 2008 ME UNDERGRAD CURRICULUM

Total Hours
128

Mathematics & Computation	27	hours
Communication & General Education Electives	21	hours
Material Science & Manufacturing	9	hours
Mechanical Systems & Structures	22	hours
Energy & Thermal Science	12	hours
Electrical Systems, Measurements & Controls	15	hours
Technical Electives	10	hours
ME Design & Development	12	hours

Fall Credits	17	Spring Credits	15	Fall Credits	15	Spring Credits	17	Fall Credits	17	Spring Credits	16	Fall Credits	15	Spring Credits	16
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MATHEMATICS and COMPUTATION

MATH 121	5	MATH 122	5	MATH 220	3	MATH 290	2	ME 508	3	ME 661	3
Calculus I		Calculus II		Diff. Eqns.		Lin. Alg		Num. Analysis		FEM for Stress Anal.	
		ME 206	3	MATH 365	3						
		Intro. To Dig. Comp.		Statistics							

COMMUNICATION

ENGL 101	3	ENGL 102	3
Composition		Crit. Reading/Writing	

GENERAL ED

LIST GE 1	3
Gen. Ed. Elective	

MATERIAL SCIENCE

CHEM 125	5	ME 346	4
College Chemistry		Engr. Materials	

LIST GE 3	3	LIST GE 4	3
Gen. Ed. Elective		Gen. Ed. Elective	

ME 311	4	ME 520	3
Mechanics of Materials		Dyn. of Machinery	

LIST GE 5	3
Gen. Ed. Elective	

MECHANICAL SYSTEMS & STRUCTURES

LIST GE 2	3	PHSX 211	4	ME 201	2	ME 510	3	ME 420	3	ME 528	3	ME 628	3
Gen. Ed. Elective		Gen. Physics I		Statics		Fluid Mechanics		Mechanisms		Machine Design I		Machine Design II	

ENERGY AND THERMAL SCIENCE

ME 312	3	ME 412	3	ME 612	3
Engr. Thermodynamics		Thermal Systems		Heat Transfer	

TECHNICAL ELECTIVES

LIST I or II	3	LIST I or II	3
Technical Elective		Technical Elective	

ELECTRICAL SYSTEMS, MEASUREMENT & CONTROL

PHSX 212	4	EE 318/318	4	ME 455	4	ME 662	3	LIST I or II	4
Gen. Physics II		Circuits/Elect. Lab		ME Measurements		Control Systems		Technical Elective	

MECHANICAL ENGINEERING DESIGN & DEVELOPMENT

ME 228	3	ME 501	3	A,B,C,D	3	A,B,C,D	3
Computer Graphics		ME Design Process		Capstone Design Cpt.		Capstone Design Proj.	