

MECHANICAL ENGINEERING

Curriculum

University of South Alabama

2005-2006

Semester Hours Total

128

Crs No	First Semester	hrs	Crs No	Second Semester	hrs
EH 101	English Composition I	3	EH 102	English Composition II	3
MA 125	Calculus I	4	MA 126	Calculus II	4
CH 131	Chemistry I	4	PH 201	Physics I	4
ME 135	Engineering Graphics	3	ME 123	Intro. Design & Ethics	3
CA 110	Public Speaking	3		General Education*	3
	SEMESTER TOTAL	17		SEMESTER TOTAL	17
Crs No	Third Semester	hrs	Crs No	Fourth Semester	hrs
MA 227	Calculus III	4	MA 238	Differential Equations	3
PH 202	Physics II	4	MA 237	Linear Algebra	3
CIS 227	Comp Progr./Num. Methods	3	EG 284	Dynamics	3
EG 220	Electric Circuits	3	EG 315	Mechanics of Materials	3
EG 283	Statics	3		General Education*	3
	SEMESTER TOTAL	17		SEMESTER TOTAL	15
Crs No	Fifth Semester	hrs	Crs No	Sixth Semester	hrs
EG 270	Engr. Thermodynamics	3	ME 312	Mech. Engr. Thermodynamics	3
EG 230	Engineering Economics	3	ME 314	Mach. Component Design	3
EG 360	Fluid Mechanics	3	ME 316	Instrumentation (W)	3
ME 326	Materials Science	3	ME 317	Heat Transfer	3
ME 328	Mech. Engr. Analysis	3	ME 319	Instrumentation Lab	1
			ME 336	Materials Science Lab	1
				General Education*	3
	SEMESTER TOTAL	15		SEMESTER TOTAL	17
Crs No	Seventh Semester*****	hrs	Crs No	Eighth Semester*****	hrs
ME 411	Thermal Systems Design	3	ME 414	Capstone Design II	2
ME 412	Thermal Science Lab.	1	ME 429	Controls Lab	1
ME 413	Capstone Design I	2	ME 472	Vibrations	3
ME 421	Mechanical Systems Design	3	ME	ME Elective**	3
ME 426	Controls	3	ME	Tech Elective***	3
-	General Education*	3		General Education*	3
	SEMESTER TOTAL	15		SEMESTER TOTAL	15

* Eighteen hours of Humanities/Social Science courses are required. These must include nine hours in Humanities, nine hours in Social Sciences including one sequence. Also required is one literature, one fine arts, one CA 110 (Public Speaking), one history and one Social and Behavioral Science.

** The Mechanical Engineering design elective must be an approved Mechanical Engineering course.

*** The technical elective is normally a 300- or 400-level course from mathematics, science, computer and information sciences, or engineering, and must be approved by the advisor

****All required 100- and 200-level courses are prerequisite to 400-level courses.