UAH
The University of Alabama in Huntsville

Name (Last, First MI) _____ A _____ Student ID Number _____ Student Signature (for graduation)

Mechanical Engineering Program 2009/2011 (132 Hours)

	Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Offered: F=Fall S=Spring M=Summer
					English - 6 hours		
			EH 101	3	Freshman Composition I	Placement	FSM
			EH 102	3	Freshman Composition II	EH 101	FSM
					Mathematics - 15 hours		
			MA 171	4	Calculus A	MA 113 or MA 115 or Level III Placement	FSM
			MA 172	4	Calculus B	MA 171	FSM
			MA 201	4	Calculus C	MA 172	FSM
			MA 238	3	Applied Differential Equations	Prereq w/Con: MA 201	FSM
					Chemistry - 4 hours		
			CH 121	3	General Chemistry I	CH 101 or Plcmt, MA 112, Prereq w/Con: MA 113 or 115, Coreq: CH 125	FSM
			CH 125	1	General Chemistry Lab I	Coreq: CH 121	FSM
					Physics - 8 hours		
			PH 111	3	General Physics w/Calculus I	MA 171	FSM
			PH 114	1	General Physics Lab I	Prereq w/Con: PH 111	FSM
			PH 112	3	General Physics w/Calculus II	MA 172, PH 111	FSM
			PH 115	1	General Physics Lab II	Prereq w/Con: PH 112	FSM
					Chemistry/Physics Elective - 4 hours		
				3		Choose from BYS 119, CH 123/126 or PH 113/116	FSM
				1			FSM
					History, Social & Behavioral Sciences - 9 hours		
			HY	3	History	Must take a six hour sequence in a discipline.	FSM
				3		See Humanities & Fine Arts List at	FSM
				3		http://www.uah.edu/engineering/StudentAffairs/forms.php.	FSM
					Humanities & Fine Arts - 9 hours		
			EH	3	Literature	See History, Social & Behavioral Sciences list at	FSM
				3	Fine Arts	http://www.uah.edu/engineering/StudentAffairs/forms.php.	FSM
			PHL 202	3	Introduction to Ethics		FSM
					Engineering Core - 12 hours		
			MAE 271	3	Statics	PH 111, Prereq w/Con: MA 201	FSM
			MAE 341	3	Thermodynamics I	MA 201, CH 121, CH 125, PH 112	FSM
			EE 213	3	Electrical Circuit Analysis I	PH 112, Prereq w/Con: MA 238 & (MA 244 or CHE 244 or MAE 285)	FSM
			ISE 321	3	Engineering Economy	MA 172, Sophomore Standing	FSM
**	Class has required lab section				**Mechanical Engineering Option - 57 hours**		
**			MAE 100	2	Introduction to Mechanical & Aerospace Eng	Prereq w/Con: MA 112 or Level II Placement, Coreq: MAE 100L	FS
			MAE 110	3	Intro to Engineering Computer Aided Design	Prereq w/Con: MA 112 or Level II Placement	FSM
			MAE 272	3	Dynamics	MAE/CE 271 & (MAE 285 or CPE 112)	FSM
**			MAE 285	3	Numerical Methods & Computation I	MA 171, Coreq: MAE 285L	FSM
			MAE 310	3	Fluid Mechanics I	MA 238, MAE/CE 271 & (MAE 285 or CPE 112 or CHE 197)	FSM
**			MAE 311	3	Principles of Measurement & Instrumentation	EE 213, Coreq: MAE 311L	FSM
			MAE 342	3	Thermodynamics II	MAE 341	FSM
**			MAE 364	4	Kinematics & Dynamics of Machines	MAE 110, MAE/CE 272, Coreq: MAE 364L	SM
**			MAE 370	4	Mechanics of Materials	MAE 271 & (MAE 285 or CPE 112 or CHE 197), Coreq: MAE 370L	FSM
			MAE 378	3	Materials & Manufacturing Processes	MAE/CE 370	FSM
			MAE 385	2	Numerical Methods & Computation II	(MAE 285 or CPE 112 or CHE 197), Prereq w/Con: MA 238	FSM
			MAE 410	2	Fluid Mechanics II	MAE 310, Prereq w/Con: MAE 311	FM
			MAE 411	1	Fluid Mechanics Lab	MAE 310	FM
**			MAE 450	4	Intro to Heat and Mass Transfer	MAE 310, MAE 385, Coreq: MAE 450L	FSM
			MAE 455	3	Design of Thermal Systems	MAE 342, MAE 450, Recommended: MAE 490	FSM
			MAE 466	3	Mechanics & Design of Machine Elements	MAE 364, MAE/CE 370	FM
			MAE 488	3	Analysis of Engineering Systems	EE 213, MAE/CE 272, MAE 310, MAE 385	FSM
			MAE 489	3	Computer-Aided Engineering Analysis	MAE/CE 370, Prereq w/Con: MAE 385	SM
			MAE 490	2	Intro to Engineering Design	EE 213, ISE 321, MAE/CE 272	FSM
			MAE 491	3	Mechanical Engineering Design	MAE 378, MAE 490, Senior Standing, Instructor Permission	FS
					Technical Elective - 8 hours		
				3		MAE courses 300 level or above approved by the Department	
				3			
				2			

All prerequisite classes must be completed with a "C" or higher grade.
The Catalog is the final authority for all degree requirements.

Updated
May 4, 2009

ENGINEERING

APPROVALS:

Advisor	Date	Department Chair	Date	Dean of Engineering	Date