

Name (Last, First MI)

Student A#

Student Signature (For graduation)

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	See History, Social & Behavioral Science (HSBS) List; available in Engineering Advising Office, EB 157. Must have six hour sequence in either HSBS or HFA.	FSM
			3			FSM
			3			FSM
Humanities & Fine Arts - 9 hours						
		EH	3	Literature	See Humanities & Fine Art (HFA) List; available in Engineering Advising Office, EB 157. Must have six hour sequence in either HSBS or HFA.	FSM
			3	Fine Arts		FSM
			3			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	Sophomore Standing	FSM
** Class has required lab section						
Mechanical Engineering Option - 58 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, Prereq w/Con: MAE 285	FSM
**		MAE 364	4	Kinematics & Dynamics of Machines	MAE 110, MAE/CE 272, Coreq: MAE 364L	SM
**		MAE 370	4	Mechanics of Materials	MAE/CE 271 & (MAE 285 or CPE 112 or CHE 197), Coreq: MAE 370L	FSM
		MAE 378	3	Materials & Manufacturing Processes	MAE/CE 370	FS
		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 341, MAE 385, Coreq: MAE 450L	FS
		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	3	Intro to Engineering Design	EE 213, MAE/CE 272, ISE 321	FSM
		MAE 491	3	Mechanical Engineering Design	MAE 490, Senior Standing, Instructor Permission	FS
Technical Elective* - 7 hours						
					300 - level or above Science or Engineering course approved by Dept	

* MA 244 can only be used as a Tech Elec if transferred from a 2-year institution upon enrollment at UAHuntsville.

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

ENGINEERING

APPROVALS:

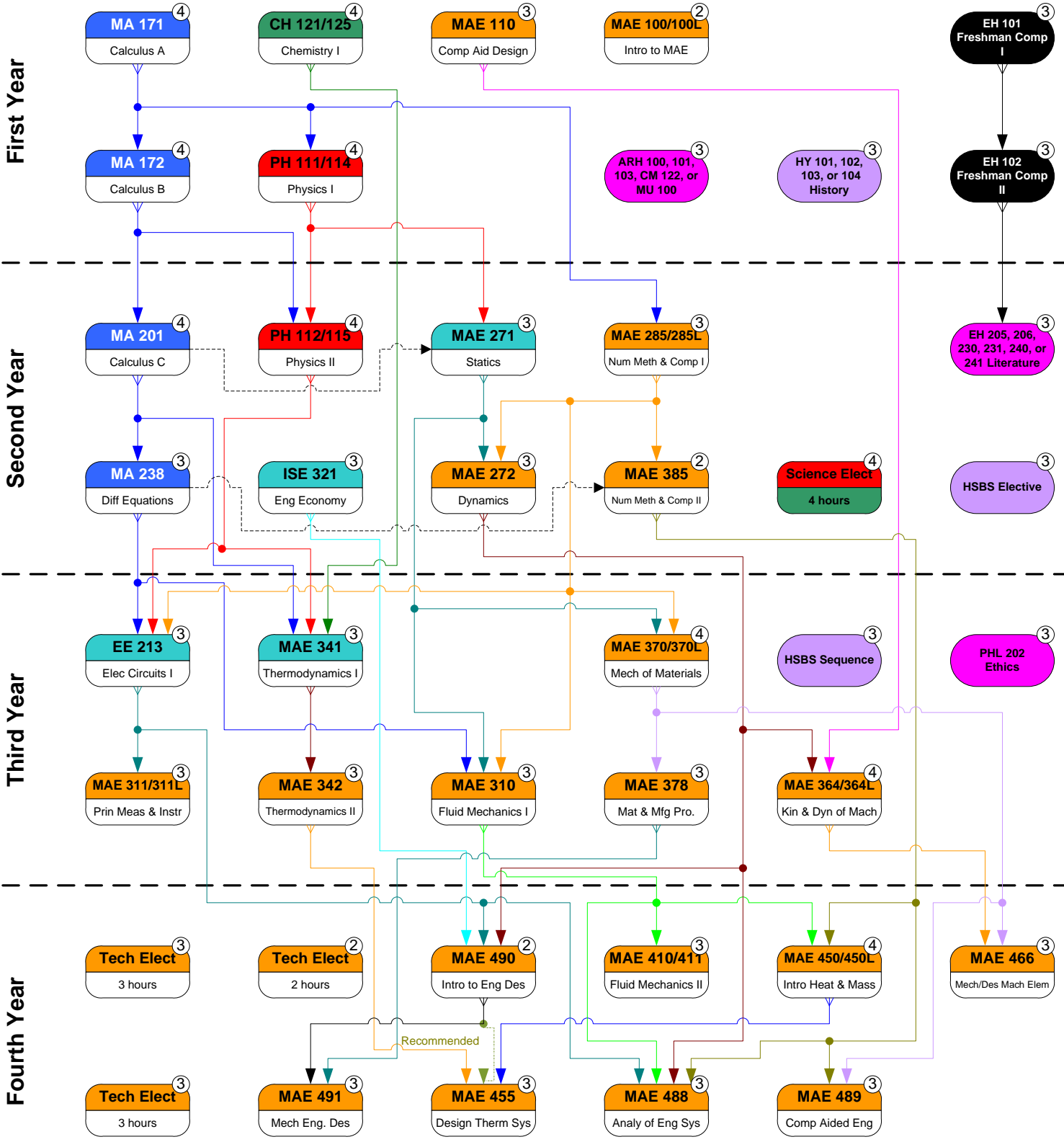
Advisor	Date	Department Chair	Date	Dean of Engineering/Designee	Date

Updated: October 17, 2011

Mechanical Engineering Program 2011/2012 (132 Hours)

UAHuntsville

Mechanical Engineering Program 2010/2011 (132 Hours)



Legend

- Freshman Comp
- Mathematics
- Chemistry / Biology
- Physics
- History, Social & Behavioral Sciences
- Hum. & Fine Arts
- Engineering Core
- Mechanical Eng. Option
- ③ Credit Hours
- Prerequisite
- - - - -> Prereq w/concurrency

UA Huntsville
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Department MAE	Prepared by Barbie Boles	Date 8/31/11
Program Mechanical Engineering Program	Approved by	Date