

Student A#

Student Name (Last, First MI)

Offered:
F=Fall
S=Spring
M=Summer

Semester, Transfer or AP	Grade	Course Number	Cr Hrs	Course Title	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Offered:
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	Plcmt or CH 101, MA 113 or 115, Prereq w/Con: MA 171, 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
Science Elective - 4 hours						
			3		Choose from 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; http://www.uah.edu/eng/center-for-undergrad-eng-edu/student-forms	FSM
			3		Must have six hour sequence in either HSBS or HFA.	FSM
			3			FSM
Humanities & Fine Arts - 9 hours						
		EH	3	Literature	See Humanities & Fine Art (HFA) List; http://www.uah.edu/eng/center-for-undergrad-eng-edu/student-forms	FSM
			3	Fine Arts	Must have six hour sequence in either HSBS or HFA.	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					
Aerospace Engineering Option - 59 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 200	2	Principles of Aeronautics & Astronautics	Prereq w/Con: MA 112 or Level II Placement	FS
		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 370	4	Mechanics of Materials	MAE/CE 271 & (MAE 285 or CPE 112 or CHE 197), Coreq: MAE 370L	FSM
		MAE 371	3	Aerospace Structures	MAE 110, MAE 200, MAE/CE 272, 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 420	3	Compressible Aerodynamics	MAE 200, MAE 310, MAE 341	SM
		MAE 430	3	Fundamentals of Aerodynamics	MAE 200, MAE 310, MAE 341	FM
Select One		MAE 440	3	Rocket Propulsion I	(MAE 410 or MAE 420), Prereq w/Con: MAE 450	FM*
		MAE 441	3	Airbreathing Propulsion	(MAE 410 or MAE 420), Prereq w/Con: MAE 450	FM*
**		MAE 450	4	Intro to Heat and Mass Transfer	MAE 310, MAE 341, MAE 385, Coreq: MAE 450L	FS
		MAE 468	3	Elements of Spacecraft Design	MAE/CE 272, MAE 371, MAE 420, MA 238, Prereq w/Con: MAE 450	SM*
		MAE 471	3	Advanced Aero Structure & Materials	MAE 311, MAE 371	FS
		MAE 480	3	Aircraft Stability & Control	MAE 488, Prereq w/Con: MAE 430	FS
		MAE 488	3	Analysis of Engineering Systems	EE 213, MAE/CE 272, MAE 310, MAE 385	FSM
		MAE 490	3	Intro to Engineering Design	EE 213, MAE/CE 272, ISE 321	FSM
Select One		MAE 491	3	Mechanical Engineering Design	MAE 490, Senior Standing, Instructor Permission	FS
		MAE 492	3	Aerospace Design	MAE 490, Senior Standing, Instructor Permission	FS
		MAE 493	3	Rocket Design	MAE 490, Senior Standing, Instructor Permission	S
		MAE 494	3	Aircraft Design	MAE 371, MAE 490, Senior Standing, Instructor Permission	S
Technical Elective - 6 hours						
			3		300 - level or above Science or Engineering course.	
			3			

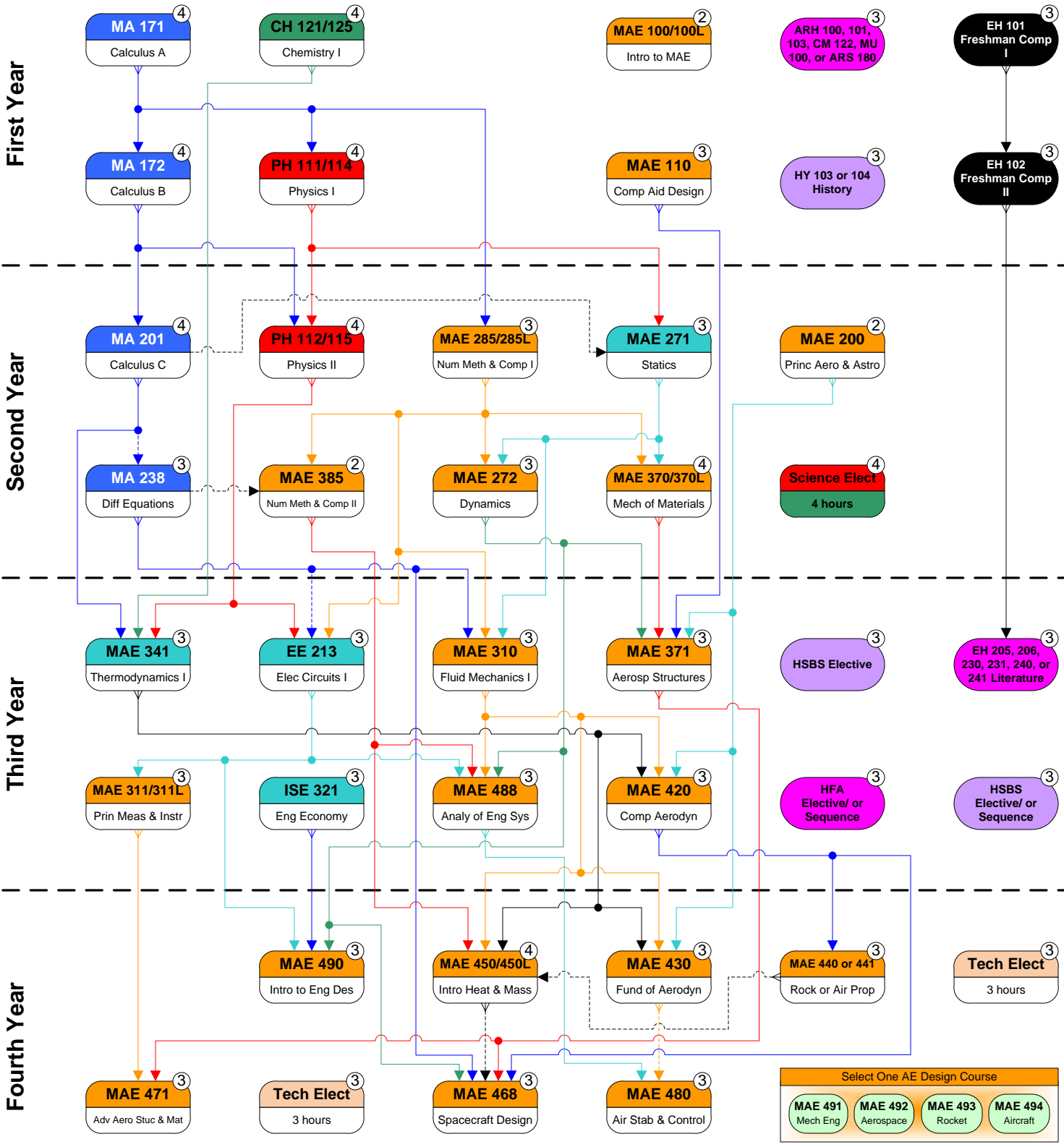
* These courses are offered in alternating summers. Please consult the MAE 5 year plan.
All prerequisite classes must be completed with a "C" or higher grade.
The Catalog is the final authority for all degree requirements.

Updated: 9/5/2012

Aerospace Engineering Program 2012/2013 (132 Hours)

UAHuntsville

Aerospace Engineering Program 2012/2013 (132 Hours)



Legend

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



Department Mechanical & Aerospace	Prepared by Jacob Kerstiens	Date 6/8/12
Program Aerospace Engineering Program	Approved by	Date