

## AEROSPACE ENGINEERING UNDERGRADUATE CURRICULUM

### FIRST SEMESTER

		credits
APMA 111	Single Variable Calculus	4
CHEM 151	Intro Chem for Engineers	3
CHEM 151L	Intro Chem Lab for Engineers	1
ENGR 162	Introduction to Engineering	4
STS 101	Lang Tech Society	4
		3
	<b>Total</b>	<b>15</b>

### SECOND SEMESTER

		credits
APMA 212	Multivariate Calculus	4
CS 101	Intro to Computer Sci.	3
PHYS 142E	General Physics I	3
PHYS 142W	Physics Lab	1
_____	Science Elective 1	3
_____	HSS Elective	3
	<b>Total</b>	<b>17</b>

### THIRD SEMESTER

		credits
MAE 201	Intro to Aerospace Engineering	3
MAE 200L	Mechanics Familiarity Lab	1
MAE 209	Probability & Statistics**	3
MAE 230	Statics	3
PHYS 241E	General Physics II	3
PHYS 241L	General Physics Lab I	1
_____	HSS Elective	3
	<b>Total</b>	<b>17</b>

### FOURTH SEMESTER

		credits
APMA 213	Ordinary Differ Eqn	4
MAE 210	Thermodynamics	3
MAE 210L	Fluid / Thermal Fam Lab	1
MAE 231	Strength of Materials	3
MAE 232	Dynamics	3
STS 200/300	Elective	3
	<b>Total</b>	<b>17</b>

### FIFTH SEMESTER

		credits
APMA 314	Vector Calc & Partial Differ Eq	3
MAE 301	Introduction to Astronautics	3
MAE 321	Fluid Mechanics I	3
MAE 352	Engineering Materials	3
MAE 381	Experimental Methods Lab	2
_____	Unrestricted Elective*	3
	<b>Total</b>	<b>17</b>

### SIXTH SEMESTER

		credits
MAE 322	Advanced Fluid Mech	3
MAE 331	Aerospace Structures	3
MAE 382	Aerodynamics Labs	3
_____	Tech Elective*	3
_____	Unrestricted Elective*	3
	<b>Total</b>	<b>15</b>

### SEVENTH SEMESTER

		credits
MAE 373	Flight Vehicle Dynamics	3
MAE 465	Aerospace Design I	3
STS 401	West Tech & Culture	3
MAE 412	Airbreathing Propulsion Systems	3
_____	HSS Elective	3
	<b>Total</b>	<b>15</b>

### EIGHTH SEMESTER

		credits
MAE 466	Aerospace Design II	3
STS 402	The Engr in Society	3
_____	Tech Elective*	3
_____	Tech Elective*	3
_____	Unrestricted Elective*	3
	<b>Total</b>	<b>15</b>

**Total Hours                    128**

\* The five courses that could be used to obtain a minor within SEAS. A minor can be obtained in the College of Arts and Sciences by appropriate use of the HSS electives and the unrestricted electives.

A list of approved technical electives is available on the MAE web page.

Suitable Math/Science II electives are all courses satisfying Science Elective I plus approved courses listed on the MAE web page.

\*\* APMA 311 may be substituted for MAE 209.