

AEROSPACE ENGINEERING UNDERGRADUATE CURRICULUM
For Students Starting in Fall 2016 Graduating in 2020

FIRST SEMESTER

		credits
APMA 1110	Single Variable Calculus II	(4)
CHEM 1610	Intro Chem for Engineers	(3)
CHEM 1611	Intro Chem Lab for Engineers	(1)
ENGR 1620	Introduction to Engineering	(4)
STS 1500	Sci, Tech, Contemporary Issues	(3)
Total		(15)

SECOND SEMESTER

		credits
APMA 2120	Multivariable Calculus	(4)
CS 111x	Intro to Programming.	(3)
PHYS 1425	General Physics 1	(3)
PHYS 1429	Gen Physics 1 Workshop	(1)
_____	Science 1 Elective ¹	(3)
_____	HSS Elective 1 ³	(3)
Total		(17)

THIRD SEMESTER

		credits
APMA 3110	Applied Probability & Statistics	(3)
MAE 2010	Intro to Aerospace Engineering	(3)
MAE 2300	Statics	(3)
PHYS 2415	General Physics II	(3)
PHYS 2419	General Physics II Workshop	(1)
_____	HSS Elective 2 ³	(3)
Total		(16)

FOURTH SEMESTER

		credits
APMA 2130	Ordinary Differ Eqn	(4)
MAE 2100	Thermodynamics	(3)
MAE 2310	Thermodynamics	(3)
MAE 2320	Dynamics	(3)
STS 2000/3000	Sci Tech Global Context	(3)
Total		(16)

FIFTH SEMESTER

		credits
APMA 3140	Applied Partial Differ Eqn	(3)
MAE 3210	Fluid Mechanics	(3)
MAE 3310	Aerospace Structures	(3)
MAE 3610	Aerospace Materials	(3)
MAE 3810	Experimental Methods Lab	(3)
_____	Unrestricted Elective 1	(3)
Total		(18)

SIXTH SEMESTER

		credits
MAE 3010	Astronautics	(3)
MAE 3220	Aerodynamics	(4)
MAE 3730	Flight Vehicle Dynamics	(3)
MAE 3820	Aerodynamics Lab	(3)
_____	Unrestricted Elective 2	(3)
Total		(16)

SEVENTH SEMESTER

		credits
MAE 4xxx	Aerospace Design I ²	(3)
STS 4500	Theories of Tech & Society	(3)
MAE 4120	Air Breathing Propulsion	(3)
_____	Math/Sci/Tech Elective 1 ¹	(3)
_____	HSS Elective 3 ³	(3)
Total		(15)

EIGHTH SEMESTER

		credits
MAE 4xxx	Aerospace Design II ²	(3)
STS 4600	The Engr, Ethics & Prof	(3)
_____	Math/Sci/Tech Elective 2 ¹	(3)
_____	Math/Sci/Tech Elective 3 ¹	(3)
_____	Unrestricted Elective 3	(3)
Total		(15)

Total Hours 128

1. Suitable Science 1 and Math/Science/Technical Electives are available on the MAE web page.
<http://www.mae.virginia.edu/academics/undergrad/MECHANICAL%20AND%20AEROSPACE%20ENGINEERING%20MATH%20SCIENCE%20TECHNICAL%20ELECTIVES%202016Rev2.pdf>
2. One of the following: MAE 4650/4660 or MAE 4690/4700
3. Approved HSS electives are found on the SEAS web page:
http://www.seas.virginia.edu/undergrad/orientation/pdfs/electives_single.pdf