

Aerospace Engineering Curriculum

Freshman Year

FE 1100 Study & Careers in Eng.	(1)		ME 1720 Intro to Engineering Design	(3)		
Chem 1310 General Chemistry	(4)		Math 1215 Calculus for Engineers II <i>Math 1160; and 1211 or 1214, or by placement exam</i>	(4)		
Chem 1319 General Chemistry Lab <i>*Chem 1310, *Chem 1100</i>	(1)		Phys 1135 Engineering Physics I <i>Math 1214 or 1211</i>	(4)		
Math 1214 or 1211 Calculus for Engineers I <i>Math 1160; and 1120 or 1140, or by placement exam</i>	(4)		GenEd Group 1	(3)		
Engl 1120 Exposition and Argumentation	(3)		GenEd Group 2	(3)		
Hist 1200(2), 1300(1), 1310(1), or Pol Sci 1200(2) (**GenEd group 1 or 2)	(3)					

Sophomore Year

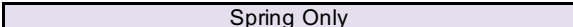
Comp Sci 1972 /1570 Programming Lecture <i>*Comp Sci 1982, Math 1214 or 1211</i>	(2)		AE 2360 Dynamics <i>CE 2200, Math 2222</i>	(3)		
Comp Sci 1982 /1580 Programming Lab <i>*Comp Sci 1972</i>	(1)		AE 2780 Intro to Aerospace Design <i>AE 2861</i>	(2)		
CE 2200 Statics <i>Phys 1135, Math 1215, *Math 2222</i>	(3)		AE 2790 Intro to Spacecraft Design <i>AE 2861</i>	(2)		
Math 2222 Calc w/Analytic Geometry III <i>Math 1215</i>	(4)		CE 2210 Mechanics of Materials <i>CE 2200</i>	(3)		
Phys 2135 Engineering Physics II <i>Phys 1135, Math 1215</i>	(4)		Math 3304 Elementary Differential Eqns <i>Math 1215</i>	(3)		
AE 2861 Aerospace Vehicle Performance <i>Phys 1135, Math 1215</i>	(3)		ME 2519 Thermodynamics <i>Math 1214, 1215, & 2222, Phys 1135</i>	(3)		

Junior Year

AE 3131 Aerodynamics I <i>Math 1214, 1215, & 2222, Phys 1135, AE 2861</i>	(3)		AE 3171 Aerodynamics II <i>AE 3131, ME 2519</i>	(3)		
AE 3613 Aerospace Mechanics I <i>Math 3304, AE 2360, Math 1214, 1215, & 2222, Phys 1135</i>	(3)		AE 3251 Aerospace Structures I <i>Math 1214, 1215, & 2222, Phys 1135, CE 2210</i>	(3)		
EE 2800 Electrical Circuits <i>Phys 2135, Math 3304</i>	(3)		AE 3361 Flight Dynamics and Control <i>AE 3613, 3131, & *2780</i>	(3)		
Mt Eng 2110 Metallurgy for Engineers <i>*Chem 1310</i>	(3)		AE 4882 Exp. Methods Aero Eng. I <i>AE 3131, EE 2800</i>	(2)		
AE 5830, Math 3108, Stat 3113, Stat 3115, or 5xxx Math/Cmp Sci	(3)		Elective - Ethics Phil 1130/3223/3225/3235	(3)		
			Engl 1160, Engl 3560, or SP&MS 1185	(3)		

Senior Year

AE 4253 Aerospace Structures II <i>AE 3251</i>	(3)		AE 4781/AE 4791 (Sys. Design II) <i>AE 4780 or AE 4790 respectively</i>	(3)		
AE 4535 Aircraft Space Veh. Propulsion <i>ME 3131 or AE 3171</i>	(3)		AE 4885 Sr. Assessment <i>AE 3171, 3361, 4253, & *4535</i>	(1)		
AE 4780/AE 4790 (Sys. Design I) <i>AE 3251, 3361, & 3171</i>	(3)		Aero Eng Technical Elective	(3)		
AE 4883 Exp. Methods Aero Eng. II <i>AE 3251, 3361, 3171, & 4882</i>	(2)		Aero Eng Technical Elective	(3)		
Aero Eng Technical Elective	(3)		GenEd Elective	(3)		
**GenEd Group 1 or 2	(3)					

 C or better required	* Preceded or Accompanied by	C or better required in pre-requisite
 Fall Only	 Spring Only	

General Education requirements for Humanities, Arts, and Social Sciences (15 credit hours) Choose courses from History, Art, Music, Theater, English and Technical Communication, Philosophy, Political Science, Psychology, Economics, Etymology, or Foreign Languages:

Group 1: 6 credits in the Humanities and Fine Arts, selected from two specific disciplines: History 1300*, 1310*, Art 1180, Music 1150, Theater 1150, and English 1211, 1212, 1221, 1222, and 1231 (or Non-prerequisite Literature).

Group 2: 6 credits in the Behavioral and Social Sciences, selected from two specific disciplines:

History 1100, 1200*, 2110, Philosophy 1105, 1115, Political Science 1200*, Psychology 1101, Econ 1100 or 1200, Foreign Languages 1101, 1102, and 1180.

GenEd Elective: 3 additional credits from any of these Humanities, Art, and Social Sciences disciplines