

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)		Econ 1100 or 1200	(3)	
Engl 1120 Exposition and Argumentation	(3)		Hum or Soc Sci Elective	(3)	
Hist 1200, 1300, 1310, or Pol Sci 1200	(3)				

Sophomore Year

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

Junior Year

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)	
AE 3131 Aerodynamics I <i>Math 1214, 1215, & 2222, Phys 1135, AE 2861</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 3171 Aerodynamics II <i>AE 3131, ME 2519</i>	(3)	
EE 2800 Electrical Circuits <i>Phys 2135, Math 3304</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 4535 Aircraft Space Veh. Propulsion <i>ME 3131 or AE 3171</i>	(3)		AE 4781/AE 4791 (Sys. Design II) <i>AE 4780 or AE 4790 respectively</i>	(3)	
AE 4253 Aerospace Structures II <i>AE 3251</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)		Literature Elective	(3)	
Adv Hum or Soc Sci Elec	(3)				

 C or better required * Preceded or Accompanied by

 C or better required in pre-requisite

 Fall Only

 Spring Only