

# 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 1214, or by placement</i>	(4)	
Chem 1319 General Chemistry Lab <i>*Chem 1310, *Chem 1100</i>	(1)		Phys 1135 Engineering Physics I Math 1214	(4)	
Chem 1100 Intro to Lab Safety and Haz Mat	(1)		Econ 1100 or 1200	(3)	
Math 1214 Calculus for Engineers I <i>Math 1160 and 1120 or 1140, or by placement</i>	(4)				
Engl 1120 Exposition and Argumentation	(3)				
Hist 1200, 1300, 1310, or Pol Sci 1200	(3)				

## Sophomore Year

Comp Sci <b>1972</b> /1570 Programming Lecture <i>*Comp Sci 1982, Math 1214</i>	(2)		AE 2780 Intro to Aerospace Design <i>AE 2861</i>	(2)	
Comp Sci <b>1982</b> /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 2222</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)	
AE 3877 Principles of Eng Materials	(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/Stat	(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)		Aero Eng Tech Elective	(3)	
AE 4780/AE 4790 (Sys. Design I) <i>AE 3251/3361/3171</i>	(2)		Aero Eng Tech Elective	(3)	
AE 4883 Exp. Methods Aero Eng. II <i>AE 3251/3361/3171/4882</i>	(2)		Literature Elective	(3)	
Aero Eng Tech Elective	(3)		Adv Hum or Soc Sci Elec	(3)	
Hum or Soc Sci Elective	(3)		AE 4885 Sr. Assessment <i>AE 3171/ 3361/4535/4253</i>	(1)	



C or better required

\* Preceded or Accompanied by

C or better required in pre-requisite

Fall Only

Spring Only