

# 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 Math 1160 and 1208 or 1214, or by placement exam	(4)		
Chem 1319 General Chemistry Lab *Chem 1310, *Chem 1100	(1)		Phys 1135 Engineering Physics I Math 1208 or 1214	(4)		
Chem 1100 Intro to Lab Safety and Haz Mat	(1)		Econ 1100 or 1200	(3)		
Math 1214 Calculus for Engineers I Math 1160 and 1120 or 1140, or by placement exam	(4)					
Engl 1120 Exposition and Argumentation	(3)					
Hist 1200, 1300, 1310, or Pol Sc 1200	(3)					

## Sophomore Year

Comp Sci 1970, 1971, or 1570 Programming Lecture	(2)		AE 2780 Intro to Aerospace Design AE 2861	(2)		
Comp Sci 1980, 1981, or 1580 Programming Lab	(1)		ME 2519 Thermodynamics CSci, Math 1214/1215/2222, Phys 1135	(3)		
CE 2200 Statics Phys 1135 or 1111, *Math 2222	(3)		AE 2360 Dynamics CE 2200, Math 2222	(3)		
Math 2222 Calc w/Analytic Geometry III Math 1215 or 1221	(4)		Math 3304 Elementary Differential Eqns Math 2222	(3)		
Phys 2135 Engineering Physics II Phys 1135, Math 1221 or 1215	(4)		CE 2210 Mechanics of Materials CE 2200	(3)		
AE 2861 Aerospace Vehicle Performance Phys 1135, Math 1215	(3)		AE 2790 Intro to Spacecraft Design AE 2861	(2)		

## Junior Year

AE 3613 Aerospace Mechanics I Math 3304, AE 2360, Math 1214/1215/2222, Phys 1135	(3)		AE 3251 Aerospace Structures I Math 1214/1215/2222, Phys 1135, CE 2210	(3)		
AE 3131 Aerodynamics I Math 1214/1215/2222, Phys 1135, AE 2861	(3)		AE 3361 Flight Dynamics and Control AE 3613/3131/*2780	(3)		
AE 3877 Principles of Eng Materials	(3)		AE 3171 Aerodynamics II AE 3131, ME 2519	(3)		
EE 2800 Electrical Circuits Phys 2135, Math 3304 or 3329	(3)		AE 4882 Exp. Methods Aero Eng. I AE 3131, EE 2800	(2)		
CSci 3200, Math 3103, Math 3108, Stat 3113, Stat 3115, or 4xxx or CSci/Math/Stat	(3)		Elective - Ethics Phil 1130/3223/3225/3235	(3)		
			Engl 1160, Engl 3560, or Speech 1185	(3)		

## Senior Year

AE 4535 Aircraft Space Veh. Propulsion ME 3131 or AE 3171	(3)		AE 4781/AE 4791 (Sys. Design II) AE 4780 or AE 4790 respectively	(3)		
AE 4253 Aerospace Structures II AE 3251	(3)		Aero Eng Tech Elective	(3)		
AE 4780/AE 4790 (Sys. Design I) AE 3251/3361/3171	(2)		Aero Eng Tech Elective	(3)		
AE 4883 Exp. Methods Aero Eng. II AE 3251/3361/3171/4882	(2)		Literature Elective	(3)		
Aero Eng Tech Elective	(3)		Hum.-Soc. Sci. Elective	(3)		
Adv Hum or Soc Sci Elec	(3)		AE 4885 Sr. Assessment AE 3171, AE 3361, AE 4535, AE 4253	(1)		



C or better required

\* Preceded or Accompanied by

C or better required in pre-requisite

Fall Only

Spring Only