

Curriculum in Aerospace Engineering

Freshman

Fall	Hours	Spring	Hours
CHEM 1030 Fundamentals Chemistry I		3 ENGL 1120 English Composition II	3
CHEM 1031 Fundamental Chemistry I Laboratory		1 PHYS 1600 Engineering Physics I	4
ENGL 1100 English Composition I		3 MATH 1620 Calculus II	4
MATH 1610 Calculus I		4 Core Social Science ¹	3
Core History ¹		3 ENGR 1110 Introduction to Engineering	2
ENGR 1100 Engineering Orientation		0	
COMP 1200 Introduction to Computing for Engineers and Scientists		2	
		16	16

Sophomore

Fall	Hours	Spring	Hours
MATH 2630 Calculus III		4 MATH 2660 Topics in Linear Algebra	3
MATH 2650 Linear Differential Equations		3 ENGR 2070 Mechanics of Materials	3
PHYS 1610 Engineering Physics II		4 ENGR 2010 Thermodynamics	3
ENGR 2050 Statics		3 ENGR 2350 Dynamics	3
AERO 2200 Aerospace Fundamentals		2 Core Humanities ¹	3
		16	15

Junior

Fall	Hours	Spring	Hours
MATH 5630 Introduction to Numerical Analysis I		3 AERO 3120 Aerodynamics II	3
ELEC 3810 Fundamentals of Electrical Engineering		3 AERO 3230 Flight Dynamics	4
Core Literature ¹		3 AERO 3310 Orbital Mechanics	3
AERO 3110 Aerodynamics I		3 AERO 3610 Aerospace Structures I	2
AERO 3130 Aerodynamics Laboratory		2 Core Fine Arts	3
AERO 3220 Aerospace Systems		3	
		17	15

Senior

Fall	Hours	Spring	Hours
AERO 4140 Aerodynamics III		3 AERO 4630 Aerospace Structural Dynamics	4
AERO 4510 Aerospace Propulsion		4 AERO 4720 Aerospace Design II	3
AERO 4620 Aerospace Structures II		4 Aero/Astro Elective³	6
AERO 4710 Aerospace Design I		3 AERO 4AA0 Program Assessment	0
		Core Social Science ¹	3
		UNIV 4AA0 Creed to Succeed	0
		14	16

Total Hours: 125

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1 The AU Bulletin lists the University Core Curriculum requirements for students in the College of Engineering. Students must complete a sequence in either Literature or History.