

# Aerospace Engineering (AERO)

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## 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 <sup>1</sup>	3
Core History <sup>1</sup>		3 ENGR 1110 Introduction to Engineering	2
ENGR 1100 Engineering Orientation		0	
COMP 1230 Introduction to Computing with MATLAB		2	
		<b>16</b>	<b>16</b>

## 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
<b>AERO 2200 Aerospace Fundamentals</b>		2 Core Humanities <sup>1</sup>	3
		<b>16</b>	<b>15</b>

## Junior

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

## Senior

Fall	Hours	Spring	Hours
<b>AERO 4140 Aerodynamics III</b>		3 <b>AERO 4630 Aerospace Structural Dynamics</b>	4
<b>AERO 4510 Aerospace Propulsion</b>		4 <b>AERO 4720 Aerospace Design II</b>	3
<b>AERO 4620 Aerospace Structures II</b>		4 Aero/Astro Elective <sup>2</sup>	6
<b>AERO 4710 Aerospace Design I</b>		3 <b>AERO 4AA0 Program Assessment</b>	0
		Core Social Science <sup>1</sup>	3
		UNIV 4AA0 Achieve the Creed	0
		<b>14</b>	<b>16</b>

**Total Hours: 125**

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<sup>1</sup> 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.

<sup>2</sup> Advisor approval required