

## Aerospace Engineering 5 Year Plan of Study for ROTC Students

### First Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry	3	ENGE 1216	Foundations of Engineering	2
CHEM 1045	General Chemistry Lab	1	ENGL 1106	First-Year Writing	3
ENGE 1215	Foundations of Engineering	2	MATH 1226	Calculus of a Single Variable	4
ENGL 1105	First-Year Writing	3	PHYS 2305	Foundations of Physics	4
MATH 1225	Calculus of a Single Variable	4			
	ROTC	Varies		ROTC	Varies
<b>Total Credit Hours</b>			<b>Total Credit Hours</b>		
<b>13 - 18</b>			<b>13-18</b>		

### Second Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 2104	Introduction to Aerospace	3	AOE 2024	Thin Walled Structures	3
ESM 2214	Statics and Mech. of Matls.	3	AOE 2074	Computational Methods	2
MATH 2114	Intro to Linear Algebra	3	ESM 2304	Dynamics	3
MATH 2204	Multivariable Calculus	3	MATH 2214	Differential Equations	3
			ECON 2005	Principles of Economics	3
	ROTC	Varies		ROTC	Varies
<b>Total Credit Hours</b>			<b>Total Credit Hours</b>		
<b>12-17</b>			<b>16-19</b>		

### Third Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 2054	Electronics for AOE Systems	3	AOE 3054	AOE Experimental Methods	3
AOE 3014	Fluid Dynamics For AOE	3	AOE 3114	Compressible Aerodynamics	3
AOE 3034	Sys. Dynamics and Control	3	MATH 4564	Operational Methods	3
AOE 3124	Aerospace Structures	3		Area 3	3
	Area 6	1			
	ROTC	Varies		ROTC	Varies
<b>Total Credit Hours</b>			<b>Total Credit Hours</b>		
<b>13 - 18</b>			<b>12-17</b>		

### Fourth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 3154	Astromechanics	3	AOE 3164	Thermo. and AE Propulsion	3
PHYS 2306	Foundations of Physics	4	AOE 3134 OR	Air Vehicle Dynamics OR	3
MATH	Elective	3	AOE 3144	Space Vehicle Dynamics	3
AOE	Technical Elective	3	AOE	Technical Elective	3
				Area 7	3
	ROTC	Varies		ROTC	Varies
<b>Total Credit Hours</b>			<b>Total Credit Hours</b>		
<b>13 - 18</b>			<b>12-17</b>		

### Fifth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 4105	Experiments for AE Design I	1	AOE 4106	Experiments for AE Design II	1
AOE 4065 OR	Air Vehicle Design I OR	3	AOE 4066 OR	Air Vehicle Design II OR	3
AOE 4165	Space Vehicle Design I	3	AOE 4166	Space Vehicle Design II	3
AOE	Technical Elective	3	AOE	Technical Elective	3
AOE	Technical Elective	3	AOE	Technical Elective	3
	Area 2	3		Area 2	3
	ROTC	Varies		ROTC	Varies
<b>Total Credit Hours</b>			<b>Total Credit Hours</b>		
<b>13 - 15</b>			<b>13-15</b>		