



## Mechanical and Aerospace

### Engineering

A.P.E. 2 yrs.

Name

<b>X</b>	<b>Course</b>	<b>Credits</b>	<b>Semester Offered</b>	<b>Online</b>	<b>Milestones</b>
	Freshman (Semester 1)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	CHEM 1210 Principles of Chemistry I	4	Fall, Spring		
	CHEM 1215 Principles of Chermistry I Lab	1	Fall, Spring		
	ENGR 1000 Introduction to Engineering	2	Fall, Spring		
	MATH 1210 Calculus I	5	Fall, Spring		
	ENGL 1010 Introduction to Writing	3	Fall, Spring, Summer	X	
	GNST 1200 Foundations	3	Fall, Spring, Summer	X	
	<b>Total Credits</b>	<b>18</b>			
	Freshman (Semester 2)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	ENGR 1400 Programming Fundamentals	3	Fall, Spring		
	ENGR 1405 Programming Fundamentals Lab	1	Fall, Spring		
	ENGR 2010 Statics	3	Fall, Spring		
	MATH 1220 Calculus II	4	Fall, Spring		
	ENGR 1300 Engineering Graphics and Design	3	Fall, Spring		
	General Education	4	Fall, Spring, Summer	X	
	<b>Total Credits</b>	<b>18</b>			
	Sophomore (Semester 1)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA) Apply for graduation
	ENGR 2140 Strength of Materials	3	Fall		
	ENGR 2250 Analog Circuits	3	Fall		
	ENGR 2255 Analog Circuits Lab	1	Fall		
	MATH 2210 Multivariable Calculus	3	Fall, Spring		
	PHYS 2210 Physics for Scientists and Engineers I	4	Fall		
	PHYS 2215 Physics for Scientists and Engineers I Lab	1	Fall		
	ENGL 2010 Intermediate Writing	3	Fall, Spring, Summer	X	
	<b>Total Credits</b>	<b>18</b>			
	Sophomore (Semester 2)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA) Declare Bachelor's degree major.
	ENGR 2030 Dynamics	3	Spring		
	ENGR 2450 Numerical Methods ( not for USU)	3	Spring		
	MATH 2250 Linear Algebra and Differential Equations	4	Spring		
	PHYS 2220 Physics for Scientists and Engineers II	4	Spring		
	PHYS 2225 Physics for Scientists and Engineers II Lab	1	Spring		
	ENGR 2300 Engineering Thermodynamics	3	Spring		
	<b>Total credits</b>	<b>18</b>			

Notes:

*\*For most recent information, students must contact their transfer institution directly.\**



**Mechanical and Aerospace  
Engineering  
A.P.E. 3 yrs.**

Name

✕	Course	Credits	Semester Offered	Online	Milestones
	Freshman (Semester 1)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	<b>MATH 1050 College Algebra</b>	4	Fall, Spring, Summer	X	
	<b>MATH 1060 Trigonometry</b>	3	Fall, Spring		
	<b>ENGL 1010 Introduction to Writing</b>	3	Fall, Spring, Summer	X	
	<b>GNST 1200 Foundations</b>	3	Fall, Spring, Summer	X	
	Total Credits	13			
	Freshman (Semester 2)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	<b>CHEM 1210 Principles of Chemistry I</b>	4	Fall, Spring		
	<b>CHEM 1215 Principles of Chemistry I Lab</b>	1	Fall, Spring		
	<b>ENGR 1000 Introduction to Engineering</b>	2	Fall, Spring		
	<b>MATH 1210 Calculus I</b>	5	Fall, Spring		
	Total Credits	12			
	Sophomore (Semester 1)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	<b>ENGR 1400 Programming Fundamentals</b>	3	Fall, Spring		
	<b>ENGR 1405 Programming Fundamentals Lab</b>	1	Fall, Spring		
	<b>ENGR 2010 Statics</b>	3	Fall, Spring		
	<b>MATH 1220 Calculus II</b>	4	Fall, Spring		
	<b>PHYS 2210 Physics for Scientists and Engineers I</b>	4	Fall		
	<b>PHYS 2215 Physics for Scientists and Engineers Lab</b>	1	Fall		
	Total Credits	16			
	Sophomore (Semester 2)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	<b>ENGR 2030 Dynamics</b>	3	Spring		
	<b>MATH 2210 Multivariable Calculus</b>	3	Fall, Spring		
	<b>PHYS 2220 Physics for Scientists and Engineers II</b>	4	Spring		
	<b>PHYS 2225 Physics for Scientists and Engineers II Lab</b>	1	Spring		
	<b>ENGL 2010 Intermediate Writing</b>	3	Fall, Spring, Summer	X	
	Total credits	14			
	Sophomore (Sememster 3)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA) Apply for graduation.
	<b>ENGR 2160 Materials Science</b>	3	Fall		
	<b>ENGR 2140 Strength of Materials</b>	3	Fall		
	<b>ENGR 2250 Analog Circuits</b>	3	Fall		
	<b>ENGR 2255 Analog Circuits Lab</b>	1	Fall		
	<b>General Education</b>	3	Fall, Spring, Summer	X	
	Total Credits	13			
	Junior (Semester 1)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA) Declare Bachelor major.
	<b>ENGR 1300 Engineering Graphics and Design</b>	3	Fall, Spring		
	<b>ENGR 2300 Engineering Thermodynamics</b>	3	Spring		
	<b>ENGR 2450 Numerical Methods (not for USU)</b>	3	Spring		
	<b>MATH 2250 Linear Algebra and Differential Equations</b>	4	Fall, Spring		
	Total Credits	13			

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