



**Mechanical and Aerospace
Engineering
A.P.E. 2 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)
	CHEM 1210 Principles of Chemistry I	4	Fall, Spring		
	CHEM 1215 Principles of Chemistry 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	
	Total Credits	18			
	Freshman (Semester 2)				Meet with your academic advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	CS 1400 Programming Fundamentals	3	Fall, Spring		
	CS 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	
	Total Credits	18			
	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	
	Total Credits	18			
	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		
	Total credits	18			

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