

## Chemical Engineering A.P.E. 2 years

## Name

*	Course	Credits	Semester Offered	Online	Milestones
	Freshman (Semester 1)				Meet with your
	CHEM 1210 Principles of Chemistry I	4	Fall, Spring		academic advisor.
	CHEM 1215 Principles of Chemistry I Lab	1	Fall, Spring		Earn 2.0 GPA or
	ENGR 1000 Introduction to Engineering	2	Fall, Spring		higher (Bachelor's
	MATH 1210 Calculus I	5	Fall, Spring		degree may require
	ENGL 1010 Introduction to Writing	3	Fall, Spring, Summer	X	higher GPA)
	GNST 1200 Foundations	3	Fall, Spring, Summer	X	
	Total Credits	18			
	Freshman (Semester 2)				Meet with your
	CHEM 1220 Principles of Chemistry II	4	Spring		academic advisor.
	CHEM 1225 Principles of Chemistry II Lab	1	Spring		Earn 2.0 GPA or
	ENGR 2010 Statics	3	Fall, Spring		higher (Bachelor's
	MATH 1220 Calculus II	4	Fall, Spring		degree may require
	ENGL 2010 Intermediate Writing	3	Fall, Spring, Summer	Х	higher GPA)
	General Education	3	Fall, Spring, Summer	X	
	Total Credits	18			
	Sophomore (Semester 1)				Meet with your
	CHEM 2310 Organic Chemistry I	4	Fall		academic advisor.
	CHEM 2315 Organic Chemistry I Lab	1	Fall		Earn 2.0 GPA or
	ENGR 2140 Strength of Materials	3	Fall		higher (Bachelor's
	MATH 2210 Multivariable Calculus	3	Fall, Spring		degree may require
	PHYS 2210 Physics for Scientists and Engineers I	4	Fall		higher GPA)
	PHYS 2215 Physics for Scientists and Engineers I Lab	1	Fall		Apply for
	PE 1096 Fitness for Life	1	Fall, Spring, Summer	X	graduation.
	Total Credits	17			
	Sophomore (Semester 2)				Meet with your
	ENGR 2300 Engineering Thermodynamics	3	Spring		academic advisor.
	ENGR 2450 Numerical Methods	3	Spring		Earn 2.0 GPA or
	MATH 2250 Linear Algebra and Differential Equations	4	Fall, Spring		higher (Bachelor's
	PHYS 2220 Physics for Scientists and Engineers II	4	Spring		degree may require
	PHYS 2225 Physics for Scientists and Engineers II Lab	1	Spring		higher GPA)
	Technical Electives	3	Fall, Spring		Declare Bachelor's
	Total credits	18			degree major.

<sup>\*</sup> Courses numbered below 1000 level do not count toward credits earned or GPA.

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

<sup>\*</sup> Electives can be courses that will complete an Associate's degree or any class in which you are interested.



## Chemical Engineering A.P.E. 3 yrs.

## Name

Preshman (Semester 1)						
MATH 1050 College Algebra 4 Fall, Spring, Summer X ENGL 1010 Introduction to Writing 3 Fall, Spring, Summer X higher (Bachelor's GRST 1200 Foundations 3 Fall, Spring, Summer X higher (Bachelor's degree may require higher GPA).  Freshman (Semester 2)		Course	Credits	Semester Offered	Online	
MATH 1060 Trigonometry  EMGL 1010 Introduction to Writing  EMGL 2010 Foundations  Total Credits  Total Credits  Total Credits  Freshman (Semester 2)  EMGR 1000 Introduction to Engineering  CHEM 1210 Principles of Chemistry I  Sophomore (Semester 1)  MATH 1220 Calculus I  ENGR Statics  FAIL Spring  A Fail Spring  Meet with your  A Fail Spring  Meet with your  A Fail Spring  Earn 2.0 GPA or  higher GPA)  Meet with your  A Fail Spring  A Fail Sp						,
ENGL 1010 Introduction to Writing GNST 1200 Foundations Total Credits 13 Fall, Spring, Summer X degree may require higher GPA) Freshman (Semester 2) ENGR 1000 Introduction to Engineering ENGR 1000 Introduction to Engineering ENGR 1000 Introduction to Engineering ENGR 1010 Introduction to Engineering ENGR 1010 Principles of Chemistry I ENGR 1210 Principles of Chemistry I ENGR 1215 Principles of Chemistry I Lab ENGR 1215 Principles of Chemistry I Lab Fall, Spring ENGR 1215 Principles of Chemistry I Lab Fall, Spring ENGR 1215 Principles of Chemistry I Lab Fall, Spring ENGR 1215 Principles of Chemistry I Lab Fall, Spring ENGR 1215 Principles of Chemistry I Lab Fall, Spring ENGR 1215 Physics for Scientists and Engineers I ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers I Lab FAIL Spring ENGR 1215 Physics for Scientists I Lab FAIL Spring ENGR 1215 Physics for Scientists I Lab FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists and Engineers II FAIL Spring ENGR 1215 Physics for Scientists I Lab FAIL Spring ENGR 1215 Physics for Scientists I Lab FAIL Spring ENGR 1215 Physics for Scientists I Lab FAIL Spring ENGR 1215 Physics for Scientists I Lab FAIL Spri					Х	
GNST 1200 Foundations  Total Credits  Total Credits		<u> </u>				
Freshman (Semester 2)  ENGR 1000 Introduction to Engineering  ENGR 1001 Introduction to Engineering  ENGR 1001 Introduction to Engineering  ENGR 1010 Introduction to Engineering  ENGR 1010 Introduction to Engineering  ENGR 1010 Introduction to Engineering  ENGR 1210 Calculus I  CHEM 1210 Principles of Chemistry I  CHEM 1215 Principles of Chemistry I Lab  Total Credits  ENGR 1210 Principles of Chemistry I Lab  Fall, Spring  Meet with your academic advisor.  ENGR Statics  ENGR Statics  PHYS 2210 Physics for Scientists and Engineers I  ENGR Statics  Fall, Spring  ENGR 1210 Intermediate English  Total Credits  Fall, Spring, Summer  Total Credits  Fall, Spring, Summer  X  degree may require higher (Bachelor's degree may require higher GPA).  Sophomore (Semester 2)  CHEM 1220 Principles of Chemistry II Lab  Sophomore (Semester 2)  CHEM 1225 Principles of Chemistry II Lab  Sophomore (Semester 3)  ENGR 2140 Strength of Materials  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  ENGR 2140 Strength of Materials  General Education  Total Credits  Total Credits  Total Credits  Total Credits  Fall  Spring, Summer  A Spring  A						1 -
Freshman (Semester 2)  ENGR 1000 Introduction to Engineering  S Fall, Spring  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)  Sophomore (Semester 1)  MATH 1220 Calculus II  ENGR Statics  PHYS 2210 Physics for Scientists and Engineers I  ENGR Statics  PHYS 2215 Physics for Scientists and Engineers I Lab  ENGL 2010 Intermediate English  Total Credits  Sophomore (Semester 2)  CHEM 1220 Principles of Chemistry II  CHEM 1220 Principles of Chemistry II  CHEM 1220 Principles of Chemistry II Lab  Marth 1220 Principles of Chemistry II Lab  Marth 2210 Physics for Scientists and Engineers II  PHYS 2225 Physics for Scientists and Engineers II  PHYS 2226 Physics for Scientists and Engineers II  PHYS 2226 Physics for Scientists and Engineers II  PHYS 2226 Physics for Scientists and Engineers II  PHYS 2227 Physics for Scientists and Engineers II  PHYS 2228 Physics for Scientists and Engineers II  PHYS 2229 Physics for Scientists and Engineers II  PHYS 2225 Physics for Scientists and Engineers II  PHYS 2226 Physics f				Fall, Spring, Summer	Х	
ENGR 1000 Introduction to Engineering  MATH 1210 Calculus I  S Fall, Spring  A Fall, Spring  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA).  Sophomore (Semester 1)  ENGR Statics  PHYS 2210 Physics for Scientists and Engineers I Lab  CHEM 1220 Principles of Chemistry II Lab  Sophomore (Semester 2)  CHEM 1220 Principles for Scientists and Engineers I Lab  ENGL 2010 Intermediate English  Sophomore (Semester 2)  CHEM 1220 Principles of Chemistry II Lab  Sophomore (Semester 3)  Sophomore (Semester 4)  Sophomore (Semester 4)  Fall Spring  Earn 2.0 GPA or higher GPA).  Earn 2.0 GPA or higher GPA  Heall Earn 2.0 GPA or higher GPA  Higher GPA  Meet with your academic advisor.  ENGL 2010 Intermediate English  Total Credits  Sophomore (Semester 2)  CHEM 1220 Principles of Chemistry II  CHEM 1225 Principles of Chemistry II Lab  MATH 2210 Multivariable Calulus  PHYS 2220 Physics for Scientists and Engineers II Lab  PHYS 2225 Physics for Scientists and Engineers II Lab  CHEM 2320 Physics for Scientists and Engineers II Lab  Total Credits  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA).  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Fall Spring  Meet with your academic advisor.  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA). Apply for graduation.  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Fall Spring, Summer X degree may require higher (Bachelor's degree may require higher GPA).  Sophomore (Semester 1)  CHEM 2320 Organic Chemistry II  Fall Spring, Summer X degree may require higher GPA)  Declare Bachelor's degree major.		Total Credits	13			higher GPA)
MATH 1210 Calculus I 5 Fall, Spring higher (Bachelor's CHEM 1210 Principles of Chemistry I Lab 1 Fall, Spring degree may require higher Genester 1)		Freshman (Semester 2)				Meet with your
CHEM 1210 Principles of Chemistry I		ENGR 1000 Introduction to Engineering	2	Fall, Spring	Х	academic advisor.
CHEM 1215 Principles of Chemistry I Lab  Total Credits  12  Sophomore (Semester 1)  MATH 1220 Calculus II  ENGR Statics  PHYS 2210 Physics for Scientists and Engineers I  ENGL 2010 Intermediate English  Total Credits  Sophomore (Semester 2)  CHEM 1225 Principles of Chemistry II Lab  PHYS 2220 Physics for Scientists and Engineers II  PHYS 2220 Physics for Scientists II  Sophomore (Semester 2)  CHEM 1220 Principles of Chemistry II Lab  Meet with your  CHEM 12210 Multivariable Calulus  PHYS 2225 Physics for Scientists and Engineers II  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Total Credits  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Earn 2.0 GPA or  higher (Bachelor's degree may require higher GPA). Apply for graduation.  Sophomore (Semester 3)  Meet with your academic advisor.  CHEM 2310 Organic Chemistry I Lab  Earn 2.0 GPA or  higher (PA). Apply for graduation.  Sophomore (Semester 3)  Meet with your academic advisor.  CHEM 2310 Organic Chemistry I Lab  Earn 2.0 GPA or  higher (Bachelor's degree may require higher GPA). Apply for graduation.  Sophomore (Semester 3)  Meet with your academic advisor.  CHEM 2310 Organic Chemistry I Lab  Earn 2.0 GPA or  higher (Bachelor's degree may require higher GPA)  Declare Bachelor's degree may require higher GPA)  Junior (Semester 1)  Declare Bachelor's degree major.		MATH 1210 Calculus I	5	Fall, Spring		Earn 2.0 GPA or
Total Credits   12   higher GPA		CHEM 1210 Principles of Chemistry I	4	Fall, Spring		higher (Bachelor's
Sophomore (Semester 1)  MATH 1220 Calculus II  MATH 1220 Calculus II  Fall, Spring  PHYS 2210 Physics for Scientists and Engineers I  PHYS 2215 Physics for Scientists and Engineers I Lab  ENGL 2010 Intermediate English  Total Credits  Sophomore (Semester 2)  CHEM 1220 Principles of Chemistry II  CHEM 1220 Principles of Chemistry II Lab  Meet with your  Academic advisor.  CHEM 1225 Principles of Chemistry II Lab  Meet with your  Academic advisor.  CHEM 1220 Physics for Scientists and Engineers II  PHYS 2220 Physics for Scientists and Engineers II  PHYS 2220 Physics for Scientists and Engineers II  PHYS 2220 Physics for Scientists and Engineers II  PHYS 2225 Physics for Scientists and Engineers II Lab  Total Credits  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Earn 2.0 GPA or  higher (Bachelor's  degree may require  higher GPA). Apply  for graduation.  Sophomore (Semester 3)  Meet with your  academic advisor.  EHEM 2315 Organic Chemistry I Lab  Fall  Earn 2.0 GPA or  higher (Bachelor's  degree may require  higher GPA)  Declare Bachelor's  degree major.		CHEM 1215 Principles of Chemistry I Lab	1	Fall, Spring		degree may require
MATH 1220 Calculus II  ENGR Statics  PHYS 2210 Physics for Scientists and Engineers I  PHYS 2215 Physics for Scientists and Engineers I Lab  ENGL 2010 Intermediate English  Total Credits  Sophomore (Semester 2)  CHEM 1220 Physics for Scientists and Engineers II  PHYS 2220 Physics for Chemistry II  Sophomore (Semester 3)  CHEM 2320 Organic Chemistry I Lab  Total Credits  Total Credits  A Fall  Fall  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA).  Meet with your academic advisor.  Earn 2.0 GPA or higher GPA).  Meet with your academic advisor.  Fall, Spring  Earn 2.0 GPA or higher (Bachelor's degree may require higher (Bachelor's degree may require higher GPA). Apply for graduation.  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I Lab  Total Credits  To		Total Credits	12			higher GPA)
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CHEM 1220 Principles of Chemistry II  CHEM 1225 Principles of Chemistry II Lab  I Spring  Earn 2.0 GPA or  MATH 2210 Multivariable Calulus  PHYS 2220 Physics for Scientists and Engineers II  PHYS 2225 Physics for Scientists and Engineers II Lab  Total Credits  Sophomore ( Semester 3)  CHEM 2310 Organic Chemistry I  Earn 2.0 GPA or  higher (Bachelor's degree may require higher GPA). Apply for graduation.  Sophomore ( Semester 3)  CHEM 2315 Organic Chemistry I  Earn 2.0 GPA or  ENGR 2140 Strength of Materials  General Education  Total Credits  12  Declare Bachelor's degree major.  CHEM 2320 Organic Chemistry II  CHEM 2320 Organic Chemistry II  CHEM 2320 Organic Chemistry II  CHEM 2325 Organic Chemistry II Lab  Tall  Declare Bachelor's degree major.			13			
CHEM 1225 Principles of Chemistry II Lab  I Spring  Earn 2.0 GPA or higher (Bachelor's PHYS 2220 Physics for Scientists and Engineers II Lab  PHYS 2225 Physics for Scientists and Engineers II Lab  Total Credits  Spring  higher GPA). Apply for graduation.  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I  CHEM 2315 Organic Chemistry I Lab  Earn 2.0 GPA or higher GPA). Apply for graduation.  Meet with your academic advisor.  CHEM 2315 Organic Chemistry I Lab  Earn 2.0 GPA or higher GPA)  Earn 2.0 GPA or higher GPA)  Fall  Earn 2.0 GPA or higher GPA)  Declare Bachelor's degree may require higher GPA)  Junior (Semester 1)  CHEM 2320 Organic Chemistry II  CHEM 2325 Organic Chemistry II Lab  1 Fall  CHEM 2325 Organic Chemistry II Lab  1 Fall	-					1
MATH 2210 Multivariable Calulus  PHYS 2220 Physics for Scientists and Engineers II  PHYS 2225 Physics for Scientists and Engineers II Lab  PHYS 2225 Physics for Scientists and Engineers II Lab  Total Credits  Sophomore (Semester 3)  CHEM 2310 Organic Chemistry I  CHEM 2315 Organic Chemistry I Lab  ENGR 2140 Strength of Materials  General Education  Total Credits  Total Credits  Total Credits  Pall  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA).  Bell  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)  Junior (Semester 1)  CHEM 2320 Organic Chemistry II  CHEM 2325 Organic Chemistry II  CHEM 2325 Organic Chemistry II Lab  Tall  Pall  Declare Bachelor's degree major.				·		
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Sophomore ( Semester 3)   Meet with your				Spring		
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CHEM 2315 Organic Chemistry I Lab  ENGR 2140 Strength of Materials  General Education  Total Credits  Junior (Semester 1)  CHEM 2320 Organic Chemistry II Lab  Total Credits  Total Credits  Fall  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)  Declare Bachelor's degree major.  CHEM 2325 Organic Chemistry II Lab  Tall  Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)		Sophomore ( Semester 3)				Meet with your
ENGR 2140 Strength of Materials  General Education  Total Credits  Junior (Semester 1)  CHEM 2320 Organic Chemistry II Lab  ENGR 2140 Strength of Materials  Fall  Fall  higher (Bachelor's degree may require higher GPA)  Declare Bachelor's degree major.		CHEM 2310 Organic Chemistry I	4	Fall		academic advisor.
General Education 4 Fall, Spring, Summer X degree may require higher GPA)  Junior (Semester 1) Declare Bachelor's degree major.  CHEM 2320 Organic Chemistry II 4 Fall degree major.		CHEM 2315 Organic Chemistry I Lab	1	Fall		Earn 2.0 GPA or
Total Credits 12 higher GPA)  Junior (Semester 1) Declare Bachelor's CHEM 2320 Organic Chemistry II 4 Fall degree major. CHEM 2325 Organic Chemistry II Lab 1 Fall		ENGR 2140 Strength of Materials	3	Fall		higher (Bachelor's
Junior (Semester 1)Declare Bachelor'sCHEM 2320 Organic Chemistry II4 Falldegree major.CHEM 2325 Organic Chemistry II Lab1 Fall		General Education	4	Fall, Spring, Summer	Х	degree may require
CHEM 2320 Organic Chemistry II 4 Fall degree major.  CHEM 2325 Organic Chemistry II Lab 1 Fall		Total Credits	12			higher GPA)
CHEM 2320 Organic Chemistry II 4 Fall degree major.  CHEM 2325 Organic Chemistry II Lab 1 Fall		Junior (Semester 1)				Declare Bachelor's
CHEM 2325 Organic Chemistry II Lab 1 Fall			4	Fall		4
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		ENGR 2300 Engineering Thermodynamics		Spring		
ENGR 2450 Numerical Methods 3 Spring						
Technical Electives 3						
Total Credits 14						

<sup>\*</sup> Courses numbered below 1000 level do not count toward credits earned or GPA.

<sup>\*</sup> Electives can be courses that will complete an Associate's degree or any class in which you are interested.

<sup>\*</sup>For most recent information, students must contact their transfer institution directly.\*