

Name:			UF ID:		Date:	
Email Address:						
Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F20 or Later, State Core, Quest)						
More course information is available at <a href="http://registrar.ufl.edu/catalog">http://registrar.ufl.edu/catalog</a>						
CP	Course	Cr	Course Title	Term to be taken	Comments	
Suggested Semester 1						
	MAC2311	4	Analytic Geometry and Calculus 1, State Core GE-M*			
	CHM2045 or CHM2095	3	General Chemistry 1 or Chemistry for Engineers 1, State Core GE-P**			
	CHM2045L	1	General Chemistry Laboratory GE-P			
	ABE2062	3	ABE 2062 Biology for Engineers, F (BSC 2010 equivalent)		Pre-health substitute BSC 2010/L & 2011/L	
	Quest 1	3	Humanities from list GE-H†		Swap with writing or other GE course (sem 2)	
	GenEd-HS	3	Humanities State Core GE-H†			
Term Credits		17				
Suggested Semester 2						
	MAC2312	4	Analytic Geometry and Calculus 2 GE-M*			
	CHM2046 or CHM2096	3	General Chemistry and Qualitative Analysis or Chemistry for Engineers 1, State Core GE-B/P**			
	CHM2046L	1	General Chemistry & Qualitative Analysis Lab GE-P			
	PHY2048	3	Physics with Calculus 1 GE-P**			
	PHY2048L	1	Laboratory for PHY2048 GE-P			
	ENC1101	3	Expository and Argumentative Writing State Core GE-C*		6K words or GE-H or S&B	
	Quest 2	3	Social & Behavioral Sciences from list GE-S†			
Term Credits		18				
Suggested Semester 3						
1	ECH3023	4	Material and Energy Balances - F, S, SS-C†		pre-req for ECH 3264/COT 3502 (CP2)	
	MAC2313	4	Analytic Geometry and Calculus 3*		pre-req for ECH 3264/COT 3502 (CP2)	
	MAP 2302	3	Elementary Differential Equations**		pre-req for ECH 3264/COT 3502 (CP2)	
	PHY2049	3	Physics with Calculus 2 GE-P**		pre-req for ECH 3264/COT 3502 (CP2)	
	PHY2049L	1	Laboratory for PHY2049		pre-req for ECH 3264/COT 3502 (CP2)	
	ECH4934	1	Chemical Engineering Professional Seminar- F, S		co-req for ECH 3023	
Term Credits		16				
Suggested Semester 4						
2	COT3502	4	Computer Model Formulation - F, S†		pre-req for critical path 3 (CP3)	
2	ECH3264	3	Elementary Transport Phenomena- F, S†		pre-req for critical path 3 (CP3)	
	STA3032/STA 2023	3	Engineering Statistics or Intro to Statistics***			
	CHM4411/PHY3513	4 or 3	Physical Chemistry or Thermal Physics††			
	TechEl	2 or 3	Technical Elective			
Term Credits		16				

\* Pre-professional Critical Tracking course, minimum overall gpa 2.5 required (note: a C+ = 2.33), all attempts calculated; individual class minimum grade: C.

\*\* Pre-professional Critical Tracking course, minimum overall gpa 2.5 required (note: a C+ = 2.33); individual class minimum grade: C.

\*\*\* Previous dual enrollment STA course, or AP exam score may substitute

<sup>†</sup> A minimum grade of "C" is required to pass this class.

<sup>††</sup> If CHM 4411 is selected, 1 cr. will be applied to Technical Elective.

<u>CP</u>	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term To Be Taken</u>	<u>Comments</u>
<b>Suggested Semester 5</b>					
<b>3</b>	<b>ECH3101</b>	<b>3</b>	<b>Process Thermodynamics - F, S<sup>†</sup></b>		pre-req for CP 4, ECH 4714 & ECH 4224L
<b>3</b>	<b>ECH3203</b>	<b>3</b>	<b>Fluid and Solid Operations - F, S<sup>†</sup></b>		pre-req for CP 4, ECH 4714 & ECH 4224L
<b>3</b>	<b>ECH3223</b>	<b>3</b>	<b>Energy Transfer Operations - F, S<sup>†</sup></b>		pre-req for CP 4, ECH 4714 & ECH 4224L
	CHM2210	3	Organic Chemistry 1 <sup>†</sup>		
	ENC 3246	3	Professional Communication for Engineers GE-C <sup>†</sup>		pre-req for ECH 4224L, 6K words <sup>†</sup>
<b>Term Credits</b>		<b>15</b>			
<b>Suggested Semester 6</b>					
<b>4</b>	<b>ECH4123</b>	<b>3</b>	<b>Phase and Chemical Equilibria – F, S</b>		Pre-req for CP 5
<b>4 or 5</b>	<b>ECH4403</b>	<b>3</b>	<b>Separation and Mass Transfer Operations – F, S</b>		Pre-req or Co-req for CP 5 & Pre-req for ECH 4404L
	ECH4224L	2	Fluid and Energy Transfer Operations Lab – F, S <sup>†</sup>		6K words <sup>†</sup>
	ECH4714	3	Chemical Process Safety – F, S <sup>†</sup>		Co-req or pre-req for ECH 4224L
	CHM2211	3	Organic Chemistry 2		
	CHM2211L	2	Organic Chemistry 2 Lab		
<b>Term Credits</b>		<b>16</b>			
<b>Summer internship</b>					
<b>Suggested Semester 7</b>					
<b>5</b>	<b>ECH4504</b>	<b>4</b>	<b>Chemical Kinetics and Reactor Design – F, S</b>		pre-req for CP 6
<b>5</b>	<b>ECH4604</b>	<b>3</b>	<b>Process Costing and Economic Analysis – F, S</b>		pre-req for CP 6
<b>5</b>	<b>ECH4824</b>	<b>2</b>	<b>Materials of Chemical Engineering – F, S</b>		pre-req for CP 6
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S <sup>†</sup>		6K words <sup>†</sup>
	TechEI	3	Technical Elective		
	EEL 3003	3	Intro to Electrical Engineering – F, S, SS-C (or CGN 3710 Experiment & Instrumentation in Civil Engineering – F, S, SS-C)		
<b>Term Credits</b>		<b>17</b>			
<b>Suggested Semester 8</b>					
	ECH4323	3	Process Control Theory – F, S		can take after COT 3502
	ECH4323L	1	Process Control Laboratory – F, S		can take after COT 3502
<b>6</b>	<b>ECH4644</b>	<b>3</b>	<b>Process Design –F, S</b>		
	ChETechEI	3	Chemical Engineering Technical Elective		
	TechEI	3	Technical Elective		
	GenEd-HS	3	Social & Behavioral Sciences State Core GE-S <sup>†</sup>		
			FE Exam		
<b>Term Credits</b>		<b>16</b>			
<b>BSCHE Credits</b>		<b>131</b>			

<sup>†</sup> A minimum grade of "C" is required.

♦ A minimum grade of "C" is required to earn General Education Writing credit

**Take Critical Path courses 1-6 in sequence (1-3 minimum grade C within 2 attempts, a drop or withdrawal is an attempt). No exceptions.**

**Technical Electives (TechEI):** 3000+ level courses in science, mathematics, or engineering with significant *technical quantitative* content.

**Chemical Engineering Technical Elective (ChETechEI):** At least 3 cr. of ECH 3XXX+ course, includes BME courses offered through CHE and ECH graduate courses. May include up to 3 credits of ChE non-course work (ECH 4905, ECH 4948, ECH 4949, EGN 4912). Courses must be offered through the ChE Department.

**Pre-Health Students:** Find specialized advising and workshop information at [www.advising.ufl.edu](http://www.advising.ufl.edu)