

<b>Name:</b>		<b>UF ID:</b>		<b>Date:</b>	
<b>Email Address:</b>					
<b>Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F15 or Later, State Core)</b>					
<i>More course information is available at <a href="http://registrar.ufl.edu/catalog">http://registrar.ufl.edu/catalog</a></i>					
	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term to be taken</u>	<u>Comments</u>
<b>Suggested Semester 1</b>					
	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
	IUF1000	3	What is the Good Life? GE-H <sup>†</sup>		Swap with writing or other GE course (sem 2)
<b>Term Credits</b>		<b>14</b>			
<b>Suggested Semester 2</b>					
	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
<b>Term Credits</b>		<b>15</b>			
<b>Suggested Semester 3</b>					
<b>1</b>	<b>ECH3023</b>	<b>4</b>	<b>Material and Energy Balances - F, S<sup>†</sup></b>		pre-req for ECH 3264/COT 3502
	MAC2313	4	Analytic Geometry and Calculus 3*		pre-req for ECH 3264/COT 3502
	MAP 2302	3	Elementary Differential Equations**		pre-req for ECH 3264/COT 3502
	PHY2049	3	Physics with Calculus 2 GE-P**		pre-req for ECH 3264/COT 3502
	PHY2049L	1	Laboratory for PHY2049		pre-req for ECH 3264/COT 3502
<b>Term Credits</b>		<b>15</b>			
<b>Suggested Semester 4</b>					
<b>2</b>	<b>COT3502</b>	<b>4</b>	<b>Computer Model Formulation - F, S<sup>†</sup></b>		pre-req for critical path 3
<b>2</b>	<b>ECH3264</b>	<b>3</b>	<b>Elementary Transport Phenomena- F, S<sup>†</sup></b>		pre-req for critical path 3
	STA3032	3	Engineering Statistics***		pre-req for ECH 4714L
	CHM4411	4	Physical Chemistry		pre-req for ECH 3101 by _____
	ECH4934	1	Chemical Engineering Professional Seminar- F, S		
<b>Term Credits</b>		<b>15</b>			
<b>Suggested Semester 5 – summer</b>					
	ENC 3246	3	Professional Communication for Engineers GE-C <sup>†</sup>		6K words, pre-req for ECH 4224L
	CHM 2210	3	Organic Chemistry 1 <sup>†</sup>		
	GenEd-HS	3	Humanities State Core GE-H <sup>†</sup>		
	GenEd-HS	3	Social & Behavioral Sciences State Core GE-S <sup>†</sup>		
<b>Term Credits</b>		<b>12</b>			

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

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\*\*\* Previous dual enrollment STA course, or AP exam score of 4 or 5, may substitute by petition.

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

	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term To Be Taken</u>	<u>Comments</u>
<i>Suggested Semester 6</i>					
3	ECH3101	3	<b>Process Thermodynamics - F, S<sup>†</sup></b>		pre-req for critical path 4 & ECH 4224L
3	ECH3203	3	<b>Fluid and Solid Operations - F, S<sup>†</sup></b>		pre-req for critical path 4 & ECH 4224L
3	ECH3223	3	<b>Energy Transfer Operations - F, S<sup>†</sup></b>		pre-req for critical path 4 & ECH 4224L
	CHM2211	3	Organic Chemistry 2		
	CHM2211L	2	Organic Chemistry Lab		
<i>Term Credits</i>		14			
<i>Suggested Semester 7</i>					
4	ECH4123	3	<b>Phase and Chemical Equilibria - S, SS – C</b>		Pre-req for critical path 5
4 or 5	ECH4403	3	<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
	EEL 3003	3	Intro to Electrical Engineering – F, S, SS-C (or CGN 3710 Experiment & Instrumentation in Civil Engineering – F, S, SS-C)		
	TechEI	2	Technical Elective		
<i>Term Credits</i>		16			
<i>Summer internship</i>					
<i>Suggested Semester 8</i>					
5	ECH4504	4	<b>Chemical Kinetics and Reactor Design – F</b>		pre-req for critical path 6
5	ECH4604	3	<b>Process Costing and Economic Analysis – F</b>		pre-req for critical path 6
5	ECH4824	2	<b>Materials of Chemical Engineering – F</b>		pre-req for critical path 6
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S <sup>*</sup>		6K words <sup>†</sup>
	TechEI	3	Technical Elective		
	GenEd-HS	3	Social & Behavioral Sciences GE-S <sup>†</sup>		
<i>Term Credits</i>		17			
<i>Suggested Semester 9</i>					
	ECH4323	3	<b>Process Control Theory – S, SS-C</b>		
	ECH4323L	1	<b>Process Control Laboratory – S, SS-C</b>		
6	ECH4644	3	<b>Process Design – S</b>		
	CHM3120	3	Introduction to Analytical Chemistry****		
	ChETechEI	3	Chemical Engineering Technical Elective		
	TechEI	3	Technical Elective		
			FE Exam		
<i>Term Credits</i>		16			
<i>BSCHE Credits</i>		134			

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

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

\*\*\*\* Petition to substitute a chemistry based course in Chemical Engineering, Chemistry, or Biochemistry.

**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* 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)