

<b>Name:</b>		<b>UF ID:</b>		<b>Date:</b>	
<b>Email Address:</b>					
<b>Bachelor of Science in Chemical Engineering Curriculum Plan (Fall 2018 or earlier)</b>					
	<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*		
	CHM2045 or CHM 2095	3	General Chemistry 1*		
	CHM2045L	1	General Chemistry Laboratory		
	ABE2062	3	Biology for Engineers, F (BSC 2010 equivalent)		Pre-health substitute BSC 2010/L & 2011/L
	IDS 1161	3	What is the Good Life		
	<b>Term Credits</b>	<b>14</b>			
<b>Suggested Semester 2</b>					
	MAC2312	4	Analytic Geometry and Calculus 2*		
	CHM2046 or CHM2096	3	General Chemistry and Qualitative Analysis 2*		
	CHM2046L	1	General Chemistry and Qualitative Analysis Laboratory		
	PHY2048	3	Physics with Calculus 1*		
	PHY2048L	1	Laboratory for PHY2048		
	ENC1101	3	Expository & Argumentative Writing (GE -C)		
	<b>Term Credits</b>	<b>15</b>			
<b>Suggested Semester 3</b>					
	MAC2313	4	Analytic Geometry and Calculus 3*		pre-req for ECH 3264/COT 3502 (CP 2)
	MAP 2302	3	Elementary Differential Equations*		pre-req for ECH 3264/COT 3502 (CP 2)
	PHY2049	3	Physics with Calculus 2*		pre-req for ECH 3264/COT 3502 (CP 2)
	PHY2049L	1	Laboratory for PHY2049		pre-req for ECH 3264/COT 3502 (CP 2)
<b>1</b>	<b>ECH3023</b>	<b>4</b>	<b>Material and Energy Balances<sup>†</sup> - F, S</b>		pre-req for ECH 3264/COT 3502 (CP 2)
	<b>Term Credits</b>	<b>15</b>			
<b>Suggested Semester 4</b>					
	STA3032	3	Engineering Statistics**		pre-req for ECH 4714L
	CHM4411 or PHY 3513	4 or 3	Physical Chemistry or Thermal Physics		pre-req for ECH 3101 by _____
<b>2</b>	<b>COT3502</b>	<b>4</b>	<b>Computer Model Formulation<sup>†</sup> - F, S</b>		pre-req for CP 3
<b>2</b>	<b>ECH3264</b>	<b>3</b>	<b>Elementary Transport Phenomena<sup>†</sup> - F, S</b>		pre-req for CP 3
	ECH4934	1	Chemical Engineering Professional Seminar- F, S		
	<b>Term Credits</b>	<b>14/15</b>			
<b>Suggested Semester 5 – summer</b>					
	ENC 3246	3	Professional Communication for Engineers <sup>†</sup>		6K words, pre-req for ECH 4224L
	CHM 2210	3	Organic Chemistry 1 <sup>†</sup>		
	GenEd-HS	3	State Core GE-H <sup>†</sup>		
	GenEd-HS	3	State Core GE-S <sup>†</sup>		
	<b>Term Credits</b>	<b>12</b>			

\* Preprofessional Critical Tracking Courses, minimum gpa 2.5 (note: a C+ = 2.33).

\*\* STA credit from AA Degree, previous dual enrollment credit, or AP score of 4 or 5 may be petitioned.

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

	<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	<b>ECH3101</b>	3	<b>Process Thermodynamics<sup>†</sup> - F, S</b>		pre-req for CP 4 & ECH 4224L
3	<b>ECH3203</b>	3	<b>Fluid and Solid Operations<sup>†</sup> - F, S</b>		pre-req for CP 4 & ECH 4224L
3	<b>ECH3223</b>	3	<b>Energy Transfer Operations<sup>†</sup> - F, S</b>		pre-req for CP 4 & ECH 4224L
	CHM2211	3	Organic Chemistry 2		
	CHM2211L	2	Organic Chemistry Lab		
<i>Term Credits</i>		14			
<i>Suggested Semester 7</i>					
4	<b>ECH4123</b>	3	<b>Phase and Chemical Equilibria – F, S</b>		Pre-req for CP 5
4 or 5	<b>ECH4403</b>	3	<b>Separation and Mass Transfer Operations – F, S</b>		Pre-req for CP 5 & ECH 4404L
	ECH4224L	2	Fluid and Energy Transfer Operations Lab – F, S		6K words <sup>†</sup>
	ECH4714	3	Chemical Process Safety <sup>†</sup> – F, S		Co-req or pre-req for ECH 4224L
	TechEI	3	Technical Elective		Pre-health take BCH 4024
	GenEd-HS	3	GE Social & Behavioral Sciences <sup>†</sup>		
<i>Term Credits</i>		17			
<i>Summer internship</i>					
<i>Suggested Semester 8</i>					
5	<b>ECH4504</b>	4	<b>Chemical Kinetics and Reactor Design – F, S</b>		pre-req for CP 6
5	<b>ECH4604</b>	3	<b>Process Costing and Economic Analysis – F, S</b>		pre-req for CP 6
5	<b>ECH4824</b>	2	<b>Materials of Chemical Engineering – F, S</b>		pre-req for CP 6
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S		6K words <sup>†</sup>
	TechEI	2	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)		
<i>Term Credits</i>		16			
<i>Suggested Semester 9</i>					
	ECH4323	3	Process Control Theory <sup>†</sup> – F, S		
	ECH4323L	1	Process Control Laboratory <sup>†</sup> – F, S		
6	<b>ECH4644</b>	3	<b>Process Design – F, 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.

<sup>\*</sup> Course pre-requisite is COT 3502..

**Take Critical Path (CP) courses 1-6 in sequence. CP 1-3 minimum grade C within 2 attempts. A drop or withdrawal is an attempt.**

**Technical Electives (TechEI):** 3000+ level courses in science, mathematics, or engineering with significant technical content. Assessments must be quantitative. Should have chemistry, calculus, or physics as a pre-req. Exceptions are made for 3 cr. of specific courses offered through the HWCOE Leadership and Innovation Institutes. See handout for details.

**Chemical Engineering Technical Elective (ChETechEI):** At least 3 credits 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).

\*\*\* **CHM 3120:** Petition to substitute any Chemical Engineering, Chemistry, or Biochemistry course. Course should have "Chemistry" in the title.

**Pre-Health students:** Find specialized advising and workshops offered through [www.advising.ufl.edu](http://www.advising.ufl.edu)