

Name:		UF ID:		Date:	
Email Address:					
Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F19 or Later, State Core)					
<i>More course information is available at http://registrar.ufl.edu/catalog</i>					
	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term to be taken</u>	<u>Comments</u>
Suggested Semester 1					
			<i>Analytic Geometry and Calculus 1, State Core GE-M*</i>		
	MAC2311	4			
	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
	IDS 1161	3	What is the Good Life? 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	<i>Analytic Geometry and Calculus 2 GE-M*</i>		
	CHM2046 or CHM2096	3	<i>General Chemistry and Qualitative Analysis or Chemistry for Engineers 1, State Core GE-B/P**</i>		
	CHM2046L	1	General Chemistry & Qualitative Analysis Lab GE-P		
	PHY2048	3	<i>Physics with Calculus 1 GE-P**</i>		
	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
	GenEd-HS	3	Social & Behavioral Sciences State Core GE-S [†]		
Term Credits		18			
Suggested Semester 3					
1	ECH3023	4	Material and Energy Balances - F, S[†]		<i>pre-req for ECH 3264/COT 3502</i>
	MAC2313	4	<i>Analytic Geometry and Calculus 3*</i>		<i>pre-req for ECH 3264/COT 3502</i>
	MAP 2302	3	<i>Elementary Differential Equations**</i>		<i>pre-req for ECH 3264/COT 3502</i>
	PHY2049	3	<i>Physics with Calculus 2 GE-P**</i>		<i>pre-req for ECH 3264/COT 3502</i>
	PHY2049L	1	Laboratory for PHY2049		<i>pre-req for ECH 3264/COT 3502</i>
	ECH4934	1	Chemical Engineering Professional Seminar- F, S		
Term Credits		16			
Suggested Semester 4					
2	COT3502	4	Computer Model Formulation - F, S[†]		<i>pre-req for critical path 3</i>
2	ECH3264	3	Elementary Transport Phenomena- F, S[†]		<i>pre-req for critical path 3</i>
	STA3032	3	Engineering Statistics***		<i>pre-req for ECH 4714L</i>
	CHM4411/PHY3311	4 or 3	Physical Chemistry or Thermal Physics ^{††}		<i>pre-req for ECH 3101</i>
	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 of 4 or 5, may substitute by petition.

[†] A minimum grade of "C" is required to pass this class.

^{††} If CHM 4411 is selected, 1 cr. will be applied to Technical Elective.

	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term To Be Taken</u>	<u>Comments</u>
<i>Suggested Semester 5</i>					
3	ECH3101	3	Process Thermodynamics - F, S[†]		pre-req for critical path 4 & ECH 4224L
3	ECH3203	3	Fluid and Solid Operations - F, S[†]		pre-req for critical path 4 & ECH 4224L
3	ECH3223	3	Energy Transfer Operations - F, S[†]		pre-req for critical path 4 & ECH 4224L
	CHM2210	3	Organic Chemistry 1		
	ENC 3246	3	Professional Communication for Engineers <i>GE-C[†]</i>		
<i>Term Credits</i>		15			
<i>Suggested Semester 6</i>					
4	ECH4123	3	Phase and Chemical Equilibria - S, SS – C		Pre-req for critical path 5
4 or 5	ECH4403	3	Separation and Mass Transfer Operations – F, S		Pre-req or Co-req for cp 5 & Pre-req for ECH 4404L
	ECH4224L	2	Fluid and Energy Transfer Operations Lab – F, S [•]		6K words [†]
	ECH4714	3	Chemical Process Safety – F, S [†]		Co-req or pre-req for ECH 4224L
	CHM2211	3	Organic Chemistry 2		
	CHM2211L	2	Organic Chemistry 2 Lab		
<i>Term Credits</i>		16			
<i>Summer internship</i>					
<i>Suggested Semester 7</i>					
5	ECH4504	4	Chemical Kinetics and Reactor Design – F		pre-req for critical path 6
5	ECH4604	3	Process Costing and Economic Analysis – F		pre-req for critical path 6
5	ECH4824	2	Materials of Chemical Engineering – F		pre-req for critical path 6
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S [•]		6K words [†]
	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)		
<i>Term Credits</i>		17			
<i>Suggested Semester 8</i>					
	ECH4323	3	Process Control Theory – S, SS-C		
	ECH4323L	1	Process Control Laboratory – S, SS-C		
6	ECH4644	3	Process Design – S		
	ChETechEI	3	Chemical Engineering Technical Elective		
	TechEI	3	Technical Elective		
	GenEd-HS	3	Social & Behavioral Sciences <i>GE-S[†]</i>		
			FE Exam		
<i>Term Credits</i>		16			
<i>BSCHE Credits</i>		131			

[†] 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