

Name:		UF ID:		Date:	
Email Address:					
Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F20 or Later, State Core, Quest 2)					
<i>More course information is available at http://registrar.ufl.edu/catalog</i>					
<u>CP</u>	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term to be taken</u>	<u>Comments</u>
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.

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

✓ If not already completed, include GE-S with Diversity or International component.

† 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>CP</u>	<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 CP 4, ECH 4714 & ECH 4224L
3	ECH3203	3	Fluid and Solid Operations - F, S[†]		pre-req for CP 4, ECH 4714 & ECH 4224L
3	ECH3223	3	Energy Transfer Operations - F, S[†]		pre-req for CP 4, ECH 4714 & ECH 4224L
	CHM2210	3	Organic Chemistry 1 [†]		
	ENC 3246	3	Professional Communication for Engineers GE-C [†]		6K words [†]
<i>Term Credits</i>		15			
<i>Suggested Semester 6</i>					
4	ECH4123	3	Phase and Chemical Equilibria – F, S		Pre-req for CP 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, S		pre-req for CP 6
5	ECH4604	3	Process Costing and Economic Analysis – F, S		pre-req for CP 6
5	ECH4824	2	Materials of Chemical Engineering – F, S		pre-req for CP 6
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S [†]		6K words [†]
	TechEI	3	Technical Elective		
	EEL 3003	3	Elements of 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 – F, S		can take after COT 3502
	ECH4323L	1	Process Control Laboratory – F, S		can take after COT 3502
6	ECH4644	3	Process Design –F, S		
	ChETechEI	3	Chemical Engineering Technical Elective		
	TechEI	3	Technical Elective		
	GenEd-HS	3	Social & Behavioral Sciences State Core GE-S [†] ✓		
			FE Exam		
<i>Term Credits</i>		16			
<i>BSCHE Credits</i>		131			

[†] A minimum grade of "C" is required.

D If not already completed, include GE-S with Diversity or International component.

◆ 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. See detailed instructions and approved course list on ChE Advising Canvas page.

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