

Name:		UF ID:		Date:	
Email Address:					
Bachelor of Science in Chemical Engineering Curriculum Plan (Fall 2014 – Sum 2016)					
<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					
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	
GenEd-HS	3	Humanities/Social & Behavioral Sciences†		Sum B 12 Freshman or later: take IUF 1000, GE-H	
Term Credits	14				
Suggested Semester 2					
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			
GenEd-HS	3	Humanities/Social & Behavioral Sciences†			
Term Credits	15				
Suggested Semester 3					
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)	
1	ECH3023	4	Material and Energy Balances† - F, S		pre-req for ECH 3264/COT 3502 (CP 2)
Term Credits	15				
Suggested Semester 4					
STA3032	3	Engineering Statistics***		pre-req for ECH 4714L	
CHM4411	4	Physical Chemistry		pre-req for ECH 3101 by _____	
2	COT3502	4	Computer Model Formulation† - F, S		pre-req for CP 3
2	ECH3264	3	Elementary Transport Phenomena† - F, S		pre-req for CP 3
	ECH4934	1	Chemical Engineering Professional Seminar- F, S		
Term Credits	15				
Suggested Semester 5 – summer					
ENC 3246	3	Professional Communication for Engineers†		6K words, pre-req for ECH 4224L	
CHM 2210	3	Organic Chemistry 1†			
GenEd-HS	3	Humanities/Social & Behavioral Sciences†			
GenEd-HS	3	Humanities/Social & Behavioral Sciences†			
Term Credits	12				

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

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

*** STA course from AA Degree, previous dual enrollment credit, or AP score of 4 or 5 may substitute by petition.

† 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	ECH3101	3	Process Thermodynamics[†] - F, S		pre-req for CP 4 & ECH 4224L
3	ECH3203	3	Fluid and Solid Operations[†] - F, S		pre-req for CP 4 & ECH 4224L
3	ECH3223	3	Energy Transfer Operations[†] - F, S		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	ECH4123	3	Phase and Chemical Equilibria - S, SS – C		Pre-req for CP 5
4 or 5	ECH4403	3	Separation and Mass Transfer Operations – F, S		Pre-req for CP 5 & ECH 4404L
	ECH4224L	2	Fluid and Energy Transfer Operations Lab – F, S*		6K words [†]
	ECH4714L	2	Safety and Experimental Evaluation Lab [†] – F, S		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	3	Technical Elective		Pre-health take BCH 4024
<i>Term Credits</i>		16			
<i>Summer internship</i>					
<i>Suggested Semester 8</i>					
5	ECH4504	4	Chemical Kinetics and Reactor Design – F		pre-req for CP 6
5	ECH4604	3	Process Costing and Economic Analysis – F		pre-req for CP 6
5	ECH4824	2	Materials of Chemical Engineering – F		pre-req for CP 6
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S*		6K words [†]
	TechEI	3	Technical Elective		
	GenEd-HS	3	Humanities/Social & Behavioral Sciences [†]		
<i>Term Credits</i>		17			
<i>Suggested Semester 9</i>					
	ECH4323	3	Process Control Theory – S, SS-C		
	ECH4323L	1	Process Control Laboratory – S, SS-C		
6	ECH4644	3	Process Design – S		
	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			

[†] A minimum grade of C is required.

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

*CHM 3120: Petition to substitute a **chemistry** course in Chemical Engineering, Chemistry, or Biochemistry.

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.

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).

Pre-Health students: Find specialized advising and workshops offered through www.advising.ufl.edu