Name:					UF ID:					
Email Address:					Date:					
Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F24 or Later, State Core, Quest)										
General Track										
	More course information is available at http://registrar.ufl.edu/catalog									
<u>CP</u>	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term to</u> <u>be taken</u>	<u>Comments</u>					
Suggested Semester 1										
	MAC2311	4	Analytic Geometry and Calculus 1, State Core GE-M*		Must earn a grade of C or better within two attempts (including drops and withdrawals) Must earn a grade of C or better within two attempts					
	<u>CHM2045</u> or <u>CHM2095</u>	3	General Chemistry 1 <u>or</u> Chemistry for Engineers 1, State Core GE-P**		(including drops and withdrawals)					
	CHM2045L or CHM2095L	1	General Chemistry Laboratory GE-P		Take with CHM2045 or CHM2095 lecture					
	<u>BME3406</u>	3	Introduction to Biomolecular Engineering (can be replaced by BSC2011, in which case, the pre-health track should be followed)							
	Quest 1	3	Humanities from list GE-H [†]		Swap with writing or another GE course (semester 2)					
	Gen Ed-HS	3	State Core Gen Ed Humanities <i>GE-S[†]</i>							
Term	Credits	17	14 credits total if Gen Ed-HS is satisfied by AP, IB, or dual enrollment or taken in the	summer after	semester 2					
		1	Suggested Semester 2							
	MAC2312	4	Analytic Geometry and Calculus 2 GE-M*		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
	<u>CHM2046</u> or CHM2096	3	General Chemistry 2 or Chemistry for Engineers 2, State Core GE-B/P**		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
	<u>CHM2046L</u> or CHM2096L	1	General Chemistry 2 Lab <i>GE-P</i>		Take with CHM2046 or CHM2096 lecture					
	<u>PHY2048</u>	3	Physics with Calculus 1 GE-P**		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
	PHY2048L	1	Laboratory for PHY2048 GE-P		Take with PHY2048 lecture					
	ENC1101	3	Expository and Argumentative Writing State Core GE-C [†]		Must earn a grade of C or better for 6K words [†]					
	Gen Ed – S&BS	3	State Core Gen Ed Social and Behavioral Sciences <i>GE-S</i> [†] ✓							
Term	m Credits 18 15 credits total if ENC1101 is satisfied by AP, IB, or dual enrollment or taken in the summer after semester 8									
Suggested Semester 3										
1	ECH3023	4	Material and Energy Balances - F, S, Sum C †		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
	<u>MAC2313</u>	4	Analytic Geometry and Calculus 3*		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
1	<u>MAP2302</u>	3	Elementary Differential Equations**		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
1	COP2273	3	Python Programming for Engineers							
	ECH2934	1	Professional Development of Chemical Engineers- F, S		Must be taken with ECH3023 and COP2273					
Term	Term Credits 15									
_		ļ	Suggested Semester 4	1	Mark and a first a					
2	<u>COT3502</u>	3	Computer Model Formulation - F, S [†]		Must earn a grade of C or better within two attempts (including drops and withdrawals); Prereq is COP2273.					
2	ECH3264	2	Elementary Transport Phenomena- F, S [†]		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
2	ECH3101	4	Process Thermodynamics- F, S [†]		Must earn a grade of C or better within two attempts (including drops and withdrawals)					
-	STA3032/STA2023	3	Engineering Statistics <u>or</u> Introduction to Statistics		Must earn a grade of C or better within two attempts (including					
	<u>PHY2049</u>	3	Physics with Calculus 2 GE-P**		drops and withdrawals)					
	PHY2049L	1	Laboratory for PHY2049		Take with PHY2049 lecture					
Term	Credits	16								

Students must maintain satisfactory progress (minimum GPA of 2.0) in Chemical Engineering (ChE) courses and overall UF record.

^{*} Pre-professional Calculus GPA, 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.

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

<u>CP</u>	<u>Course</u>	<u>Cr</u>	<u>Course Title</u>	<u>Term To</u> <u>Be Taken</u>	<u>Comments</u>		
			Suggested Semester 5	<u> </u>			
3	ECH3203	3	Fluid and Solid Operations - F, S [†]		Must earn a grade of C or better within two attempts (including drops and withdrawals)		
3	<u>ECH3223</u>	3	Energy Transfer Operations - F, S [†]		Must earn a grade of C or better within two attempts (including drops and withdrawals)		
3	ECH4123	3	Phase and Chemical Equilibria – F, S				
3	ENC3246	3	Professional Communication for Engineers GE-C		To receive 6K words†, you must earn a C or better Must be taken before <u>or</u> with ECH4224L		
	CHM2210	3	Organic Chemistry 1 [†]				
Term C	redits	15					
			Suggested Semester 6				
4 or 5	ECH4403	3	Separation and Mass Transfer Operations – F, S				
4	ECH4224L	2	Fluid and Energy Transfer Operations Lab – F, S*		To receive 6K words [†] , you must earn a C or better; Must immediately follow the completion of ECH3203 and ECH3223; Prerequisite is STA2023/STA3032.		
4	ECH4714	3	Chemical Process Safety – F, S [†]		Must be taken before <u>or</u> with ECH4224L		
	CHM2211	3	Organic Chemistry 2		Must earn a grade of C or better in CHM2210.		
	ChE Tech Elective	3	Chemical Engineering Technical Elective				
	Tech Elective	3	Technical Elective				
Term C	redits	17					
			Consider a Summer Internship/Co-op <u>or</u> Research Experiences	for Undergradu	uates (REU)		
			Suggested Semester 7				
5	ECH4504	4	Chemical Kinetics and Reactor Design – F, S				
5	ECH4604	3	Process Economics and Optimization – F, S				
	ECH4824	2	Materials of Chemical Engineering – F, S		Can be taken after ECH3264		
	ECH4404L	2	Separation and Mass Transfer Operations Lab – F, S*		To receive 6K words [†] , you must earn a C or better; ECH4224L must be taken before.		
	Tech Elective	3	Technical Elective				
	EEL3003	3	Elements of Electrical Engineering – F, S, Sum-A (or CGN 3710 Experiment & Instrumentation in Civil Engineering – F, S)				
Term C	redits	17					
	Suggested Semester 8						
	ECH4323	3	Process Control Theory – F, S		Can be taken after COT3502		
	<u>ECH4323L</u>	1	Process Control Laboratory – F, S		Can be taken after COT3502; Must take with ECH4323		
6	ECH4644#	3	Process Design – F, S				
	Tech Elective	3	Technical Elective				
	Gen Ed-HS	3	Quest 2 (Gen Ed Social & Behavioral Sciences) GE-S				
	CHM2211L	2	Organic Chemistry 2 Lab				
			<u>FE Exam</u>		Licensure Process for Professional Engineers (PE) Certification		
Term Credits		15					
BSCHE	Credits	130					
RSCHE	<i>Credits</i> [†] A minimum gra		Ŭ is required.				

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

Semester Legend: F = Fall, S = Spring, and Sum = Summer

Take <u>Critical Path</u> courses 1-6 in sequence; 1-3 (with the exception of ECH4123) require a minimum grade of "C" within 2 attempts (a drop or withdrawal is an a t t e m p t).

<u>Technical Electives (Tech Elective)</u>: 3000+ level courses in science, mathematics, or engineering with significant technical quantitative content.

<u>Chemical Engineering Technical Elective (ChE Tech Elective):</u> At least 3 cr. of ECH3XXX+ course, includes BME courses offered through CHE and ECH graduate courses. May include <u>up to 3 credits</u> of ChE non-course work (ECH4905, ECH4948, ECH4949, EGN4912). Courses must be offered through the ChE Department.

Pre-Health Students: Please use the pre-health track of the ChE Curriculum Plan. Find specialized advising and workshop information at www.advising.ufl.edu.

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

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

[#] IPPD Program- The option of a two-semester program in your senior year that can be substituted in for 3 credits of Technical Elective with EGN4951 in Fall and 3 credits of ECH4644 with EGN4952 in Spring.