Name:			UF ID:		Date:	
Email Address:						

Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F20 or Later, State Core, Quest 2)

More course information is available at http://registrar.ufl.edu/catalog

_CP_	_Course_	_Cr_	_Course Title_	_Term to be taken_	_Comments_
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 Quest 1 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 GE-S*
	Quest 2	3	*Social & Behavioral Sciences from Quest 2 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)*
	MAP2302	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/STA2023	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.

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

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

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

††If CHM4411 is selected, 1 cr. will be applied to Technical Elective.

CP	Course	Cr	Course Title	Term To Be Taken	Comments
Suggested Semester 5					
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†		
	ENC3246	3	Professional Communication for Engineers *GE-C†*		*6K words†*
Term Credits		*15*			
Suggested Semester 6					
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		
Term Credits		*16*			
			Summer internship		
Suggested Semester 7					
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†*
	TechEl	3	Technical Elective		
	EEL3003	3	Elements of Electrical Engineering – *F, S, SS-C* (or CGN3710 Experiment & Instrumentation in Civil Engineering – *F, S, SS-C*)		
Term Credits		*17*			
Suggested Semester 8					
	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**		
	ChETechEl	3	Chemical Engineering Technical Elective		
	TechEl	3	Technical Elective		
	GenEd-HS	3	Social & Behavioral Sciences *State Core GE-S†✔*		
			FE Exam		
Term Credits		*16*			
BSCHE Credits		*131*			

† A minimum grade of "C" is required.

✔ 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

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 (TechEl): 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 (ChETechEl): 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

Revised: 8/9/21