Name:	**UF ID:**
Email Address:	**Date:**

Bachelor of Science in Chemical Engineering 130-Credit Curriculum Plan (FTIC: F24 or Later, State Core, Quest)
General Track

CP	***Course***	***Cr***	***Course Title***	***Term to be taken***	***Comments***
			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)
	CHM2045 or CHM2095	*3*	General Chemistry 1 *or* Chemistry for Engineers 1, *State Core GE-P***		Must earn a grade of C or better within two attempts (including drops and withdrawals)
	CHM2045L or CHM2095L	1	General Chemistry Laboratory *GE-P*		Take with CHM2045 or CHM2095 lecture
	BME3406	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 *GE-S*†✓*		
	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		
	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)
	CHM2046 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)
	CHM2046L or CHM2096L	1	General Chemistry 2 Lab *GE-P*		Take with CHM2046 or CHM2096 lecture
	PHY2048	*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 *GE-S*†✓*		
	Term 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)
	MAC2313	*4*	*Analytic Geometry and Calculus 3**		Must earn a grade of C or better within two attempts (including drops and withdrawals)
	MAP2302	*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***		
1	**ECH2934**	1	**Professional Development of Chemical Engineers- *F, S***		*Must be taken with ECH3023 and COP2273*
	Term Credits	*15*			
	Suggested Semester 4				
2	***COT3502***	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 or Introduction to Statistics		
	PHY2049	*3*	*Physics with Calculus 2 GE-P***		Must earn a grade of C or better within two attempts (including drops and withdrawals)
	PHY2049L	1	Laboratory for PHY2049		Take with PHY2049 lecture
	Term Credits	*16*			

** 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.

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

CP	Course	Cr	Course Title	Term To Be Taken	Comments
			Suggested Semester 5		
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	***ECH3223***	***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 **or** with ECH4224L*
	CHM2210	3	Organic Chemistry 1†		
	Term Credits	*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 **or** 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 Credits	*17*			
			*Consider a Summer Internship/Co-op **or** Research Experiences for Undergraduates (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 CGN3710 Experiment & Instrumentation in Civil Engineering – *F, S*)		Note: CGN3710 has not been offered since 2020.
	Term Credits	*17*			
			Suggested Semester 8		
	ECH4323	*3*	*Process Control Theory – F, S*		*Can be taken after COT3502*
	ECH4323L	*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		
			FE Exam		*Optional if you wish to become a licensed Professional Engineer (PE).*
	Term Credits	*15*			
	BSCHE Credits	*130*			

† 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.

 # 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.

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

Take Critical Path 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 attempt).

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

Chemical Engineering Technical Elective (ChE Tech Elective): At least 3 cr. of ECH3XXX+ course, includes BME courses offered through CHE and ECH graduate courses. May include up to 3 credits 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.

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