

Name:				UF ID:	
Email Address:				Date:	
Bachelor of Science in Chemical Engineering Curriculum Plan (FTIC: F25 or Later)					
For Transfer Students Who Completed All Gen Ed and Common Prerequisite Requirements at a Florida Public Community/State College					
<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					
	BME2402	3	Introduction to Biomolecular Engineering (may be replaced by BSC2011 if following the pre-health track)		Pre-req: Chemistry 1 Co-req: Chemistry 2
1	<u>COP2273</u>	3	Python Programming for Engineers <sup>1</sup>		Pre-req: MAC2311
1	<u>ECH2934</u>	1	Professional Development of Chemical Engineers <sup>1</sup>		Must be taken with ECH3023 and COP2273
1	<u>ECH3023</u>	4	Material and Energy Balances <sup>1,2</sup>		Pre-req: Chemistry 1 & MAC2312 & PHY2048; Co-req: Chemistry 2 & MAC2313 & MAP2302 & ECH2934
1-3	<u>STA3032/STA2023</u>	3	Engineering Statistics <u>or</u> Introduction to Statistics <sup>1</sup>		Pre-req: MAC2311 (for STA3032)
Term credits		14			
Suggested Semester 2					
2	<u>COT3502</u>	3	Computer Model Formulation <sup>1,2</sup>		Pre-req: COP2273 & MAP2302 & MAC2313.
2	<u>ECH3101</u>	4	Process Thermodynamics <sup>1,2</sup>		Pre-req: COP2273 & ECH3023 Co-req: COT3502
2	<u>ECH3264</u>	2	Elementary Transport Phenomena <sup>1,2</sup>		Pre-req: ECH3023 & MAP2302 & MAC2313.
	EEL3003 or CGN3710	3	Elements of Electrical Engineering <u>or</u> Experiment and Instrumentation in Civil Engineering		Pre-req: MAC2313 & PHY2049; Pre-req: PHY2049
Term Credits		12			
*Consider a Summer Internship/Co-op <u>or</u> Research Experiences for Undergraduates (REU)*					
Suggested Semester 3					
	<u>CHM2210</u>	3	Organic Chemistry 1		Pre-req: Chemistry 2 or CHM2047
3	<u>ECH3203</u>	3	Fluid and Solid Operations <sup>1,2</sup>		Pre-req: COT3502 & ECH3264.
3	<u>ECH3223</u>	3	Energy Transfer Operations <sup>1,2</sup>		Pre-req: COT3502 & ECH3264.
3	<u>ECH4123</u>	3	Phase and Chemical Equilibria <sup>1</sup>		Pre-req: ECH3101.
1-4	<u>ENC2256</u>	3	Writing in the Disciplines GE-C <sup>1,2,3</sup> (Engineering-focused section).		Pre-req: ENC1101 or ENC1102; Must be taken before <u>or</u> with ECH4224L.
Term Credits		15			
Suggested Semester 4					
	<u>CHM2211</u>	3	Organic Chemistry 2		Pre-req: CHM2210 or CHM2212 Co-req: CHM2211L
	<u>CHM2211L</u>	2	Organic Chemistry Lab		Pre-req: Org. Chem. 1 & Chem. 2 Lab Co-req: CHM2211
4	<u>ECH4224L</u>	2	Fluid and Energy Transfer Operations Lab <sup>1,3</sup>		Pre-req: ECH3101 & ECH3203 & ECH3223 & (STA3032 or STA2023) Co-req: ECH4714 & ENC2256.
4 or 5	<u>ECH4403</u>	3	Separation and Mass Transfer Operations <sup>1</sup>		Pre-req: ECH3101 & ECH3203 & ECH3223.
4	<u>ECH4714</u>	3	Chemical Process Safety <sup>1,2</sup>		Pre-req: ECH3101 & ECH3203 & ECH3223.
Term Credits		13			

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Suggested Semester 5					
	<u>ECH4404L</u>	2	Separation and Mass Transfer Operations Lab <sup>3</sup>		Pre-req: ECH4403 & ECH4224L & ECH4714.
4 or 5	<u>ECH4504</u>	4	Chemical Kinetics and Reactor Design <sup>1</sup>		Pre-req: ECH3264 & ECH4123.
4 or 5	<u>ECH4604</u>	3	Process Economics and Optimization <sup>1</sup>		Pre-req: ECH3203 & ECH3223 Co-req: ECH4403
3-5	<u>ECH4824</u>	2	Materials of Chemical Engineering <sup>1</sup>		Pre-req: ECH3264
	Tech Elective	4	Technical Elective		
Term Credits		15			
Suggested Semester 6					
	<u>ECH4323</u>	3	Process Control Theory		Pre-req: COT3502 Co-req: ECH4323L
	<u>ECH4323L</u>	1	Process Control Laboratory		Pre-req: COT3502 Co-req: ECH4323
6	<u>ECH4644</u>	3	Process Design <sup>4</sup>		Pre-req: ECH4403 & ECH4504 & ECH4604 & ECH4824
	ChE Tech Elective	3	Chemical Engineering Technical Elective		
	Tech Elective	3	Technical Elective		
Term Credits		13			

<sup>1</sup> Major Critical Path courses must be taken and completed in sequence.

<sup>2</sup> A minimum grade of “C” is required.

<sup>3</sup> Satisfies 6,000 words of writing requirement. To receive writing credit, students must satisfactorily complete the writing component and receive a minimum grade of C (2.0) for the course.

<sup>4</sup> The Integrated Process and Product Design Courses (EGN4951 & EGN4952) may be substituted for 3 credits of Technical Electives and ECH4644, respectively. EGN4951 and EGN4952 are offered in Fall and Spring semesters, respectively. If you plan to graduate in the Fall and are interested in participating in the IPPD program, please contact the advising office.

- Students must maintain satisfactory progress (*minimum GPA of 2.0*) in Chemical Engineering (ChE) courses and overall UF record.
- Take Critical Path courses 1-6 in sequence.
- The following critical path courses require a minimum grade of “C” within 2 attempts (a drop or withdrawal is an attempt): ECH3023, ECH3101, ECH3203, ECH3223, ECH3264, COT3502.
- **Technical Electives (Tech Elective):** 3000+ level courses in science, mathematics, or engineering with significant technical quantitative content. May include up to 5 credits of non-course work (internships/co-ops and research). Please consult the list of pre-approved tech electives posted on Canvas ChE Advising. If you are interested in taking a course that is not on the list, please contact the advising office.
- **Chemical Engineering Technical Elective (ChE Tech Elective):** At least 3 cr. of ECH3XXX+ courses offered through CHE.
- **Pre-Health Students:** Please use the pre-health track of the ChE Curriculum Plan. Find specialized advising and workshop information at <https://www.advising.ufl.edu/pre-health/>
- Additional course information is available at <https://catalog.ufl.edu/UGRD/>