

# Chemical Engineering B.S.C.H.

4- Year Plan of Study

Items marked with a  are critical for the student to remain on track for graduation.

## Notes

The Plan of Study is a static review of the degree. Connect with your major advisor for a personalized path toward graduation.

### Potential Entry Level Job Titles:

Chemical Engineer ◦ Project Engineer ◦ Process Engineer ◦  
Applications Engineer ◦ Production Engineer ◦ Process Control Engineer

### Potential Entry Level Salary Range:

\$65,000 - \$93,000

## Semester 1 - Fall

Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	CHM 2045 - General Chemistry I	3
<input type="checkbox"/>	CHM 2045L - General Chemistry I Lab	1
<input checked="" type="checkbox"/>	ECH 3002 - Intro Chem & Biomolecular Eng	2
<input checked="" type="checkbox"/>	EGN 3000 - Foundations of Engineering	0
<input type="checkbox"/>	EGN 3000L - Foundations of Engineering Lab	3
<input type="checkbox"/>	ENC 1101 - Composition I	3
<input checked="" type="checkbox"/>	MAC 2311 - Calculus I	4
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

## Semester 2 - Spring

Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	CHM 2046 - General Chemistry II	3
<input type="checkbox"/>	CHM 2046L - General Chemistry II Lab	1
<input type="checkbox"/>	ECH 3854 - Engineering Computations	3
<input checked="" type="checkbox"/>	MAC 2312 - Calculus II	4
<input checked="" type="checkbox"/>	PHY 2048 - General Physics I	3
<input type="checkbox"/>	PHY 2048L - General Physics I Laboratory	1
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 3 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>	Consider pursuing an Education Abroad, Internship, Community Engagement, or Research Experience in the Summer term.	0
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 4 - Fall		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	BSC 2010 - Bio I - Cellular Processes	3
<input checked="" type="checkbox"/>	ECH 3023 - Material & Energy Balances	3
<input type="checkbox"/>	ENC 1102 - Composition II	3
<input checked="" type="checkbox"/>	MAC 2313 - Calculus III	4
<input checked="" type="checkbox"/>	PHY 2049 - General Physics II	3
<input type="checkbox"/>	PHY 2049L - General Physics II Laboratory	1
<input type="checkbox"/>	Apply for Progression to Upper Division	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 5 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	CHM 2210 - Organic Chemistry I	3
<input type="checkbox"/>	CHM 2210L - Organic Chemistry Lab I	1
<input checked="" type="checkbox"/>	ECH 3101 - Chemical Engineering Thermo I	3
<input checked="" type="checkbox"/>	EGN 3433 <b>OR</b> MAP 2302	3
<input type="checkbox"/>	ECH 4846 - Numerical Methods in Chem Engr	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 6 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 7 - Fall		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	AMH 2010 <b>OR</b> AMH 2020 <b>OR</b> POS 2041 (SCIV/SGES)	3
<input checked="" type="checkbox"/>	ECH 3266 - Transport Phenomena I	3
<input checked="" type="checkbox"/>	ECH 4123 - Chemical Engineering Thermo II	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 8 - Spring		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	ECH 4267 - Transport Phenomena II	3
<input checked="" type="checkbox"/>	ECH 4418 - Separation Processes	3
<input type="checkbox"/>	ECH 4504 - Reaction Engineering	3
<input type="checkbox"/>	EMA 4003 - Intro to Materials Science	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 9 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 10 - Fall		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	ECH 3240L - Chemical Engineering Lab I	2
<input checked="" type="checkbox"/>	ECH 4323 - Process Dynamics & Control	3
<input checked="" type="checkbox"/>	ECH 4605 - Product & Process Systems Eng.	3
<input type="checkbox"/>	ECH 4715 - Safety & Ethics	2
<input type="checkbox"/>	Gen-Ed State Humanities (SGEH)	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 11 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	ECH 4241L - Chemical Engineering Lab II	2
<input type="checkbox"/>	ECH 4615C - Product & Process Design	3
<input type="checkbox"/>	ECH 4680C - Product Development	3
<input type="checkbox"/>	Gen-Ed USF Humanities (UGEH)	3
<input type="checkbox"/>	Gen-Ed USF Social Sciences (UGES)	3
<input type="checkbox"/>	Apply for Graduation	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		



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