

# FSU Chemical Engineering

\* Course Pre-requisites  
+ Course Co-requisites

\* Semester(s)  
course is offered

**\*Please note that major courses are not offered every semester\***

FRESHMAN	<b>_ CHM 1045/1045L</b> General Chemistry I w/ Lab _____ (3/1) *C- or better in MAC 1105  Fall, Spring, Summer	<b>_ MAC 2311</b> Calculus I _____ (4) *C- or better in MAC 1140 and MAC 1114  Fall, Spring, Summer	<b>_ ENC 1101</b> English I _____ (3)  Fall, Spring, Summer	<b>_ EGN 1004L</b> First Year Engineering Lab _____ (1)  Fall, Spring, Summer	<b>LIBERAL STUDIES</b> *Requirements in gray not required for students with AA  <b>_ Statewide Social Science or History:</b> ANT2000, ECO2013, POS1041, PSY2012, SYG1000, AMH 2020 _____ (3)  <b>Statewide Humanities or Ethics:</b> ARH2000, HUM2020, LIT2000, MUL2010, THE2000, PHI 2010 _____ (3)  <b>_ Scholarship in Practice/Formative Exp.: ECH 4604/ ECH 4615 (6)</b>  <b>_ Upper-Division Writing: ECH 4404L (3)</b>  <b>Computer Competency: ECH 3854 (4)</b>  <b>_ Oral Communication Competency: ECH 3274L (3)</b>  <b>General Education Electives</b> 1 _____ (3) 2 _____ (3)  <b>_ History _____</b> <b>_ State W _ Social Science _____</b> <b>Humanities _ Ethics _____</b> <b>_ 1st Diversity _ Civic Lit Course _____</b> <b>_ 2nd Diversity <input type="checkbox"/> Civic Lit Exam</b>
	<b>_ CHM 1046/1046L</b> General Chemistry II with Lab _____ (3/1) *C- or better in CHM 1045  Fall, Spring, Summer	<b>_ MAC 2312</b> Calculus II _____ (4) *C- or better in MAC 2311  Fall, Spring, Summer	<b>_ ENC 2135 (FSU)</b> English II _____ (3)  Fall, Spring, Summer	<b>BSC 2010 (FSU)</b> Biological Science I _____ (3)  Fall, Spring, Summer	
SOPHOMORE	<b>CHM 2210</b> Organic Chemistry I _____ (3) *C- or better in CHM 1046  Fall, Spring, Summer	<b>MAC 2313</b> Calculus III _____ (5) *C- or better in MAC 2312  Fall, Spring, Summer	<b>ECH 3023</b> Mass & Energy Balances I _____ (3) *MAC 2312, CHM 1046 +CHM 2210, MAC 2313, PHY 2048C  Fall, Spring	<b>PHY 2048C</b> Gen. Physics A with Lab _____ (5) *C- or better in MAC 2311  Fall, Spring, Summer	
	<b>CHM 2211</b> Organic Chemistry II _____ (3) *C- or better in CHM 2210  Fall, Spring, Summer	<b>ECH 3301</b> Process Analysis & Design _____ (4) *C- or better in MAC 2312 +ECH 3023, MAC 2313  Fall, Spring, Summer	<b>ECH 3024</b> MEB2 _____ (4) * CHM 2210, MAC 2313, PHY 2048C, ECH 3023 +ECH 3301, PHY 2049C, BSC 2010  Spring, Summer	<b>PHY 2049C</b> Gen. Physics B with Lab _____ (5) *PHY 2048C, MAC 2312  Fall, Spring, Summer	
JUNIOR	<b>ECH 3101</b> Thermodynamics _____ (3) *ECH 3024, ECH 3301, PHY 2049C +ECH 3854, ECH 3266, ECH 3844  Fall	<b>ECH 3854</b> ChE Computations _____ (4) *ECH 3024, ECH 3301, PHY 2049C +ECH 3101, ECH 3266, ECH 3844  Fall	<b>ECH 3266</b> Transport Phenomena I _____ (3) *ECH 3024, ECH 3301, PHY 2049C +ECH 3101, ECH 3844, ECH 3854  Fall	<b>ECH 3844</b> ChE Statistics _____ (3) *ECH 3024, ECH 3301, PHY 2049C +ECH 3101, ECH 3266, ECH 3854  Fall	
	<b>_ ECH 3274L</b> Trans. Phenomena Lab _____ (3) *ECH 3101, 3266, 3854, 3844 + ECH 3418, ECH 4267  Spring	<b>_ ECH 3418</b> Separations _____ (3) *ECH 3101, ECH 3266, ECH 3854, ECH 3844 +ECH 3274L, ECH 4267  Spring	<b>_ ECH 4267</b> Transport II _____ (3) *ECH 3101, ECH 3266, ECH 3854, ECH 3844 +ECH 3274L, ECH 3418  Spring	<b>_ EGM 3512</b> Eng. Mechanics _____ (4) *PHY 2048C, MAC 2312 +MAC 2313  Fall, Spring, Summer	
SENIOR	<b>_ ECH 4404L</b> Unit Operations Lab _____ (3) *ECH 3274L, ECH 3418, ECH 4267 +ECH 4504, ECH 4604  Fall	<b>_ ECH 4504</b> Kinetics & Reactor Design _____ (3) *ECH 3274L, ECH 3418, ECH 4267 +ECH 4404L, ECH 4604  Fall, Summer	<b>_ ECH 4604</b> ChE Process Design I _____ (4) *ECH 3274L, ECH 3418, ECH 4267 +ECH 4404L, ECH 4504  Fall	<b>ECH XXXX</b> ChE Elective _____ (3) *ECH 3274L, ECH 3418, ECH 4267 +ECH 4504  Fall, Spring	<b>_ EEL 3003</b> Intro to Electrical Engineering _____ (3) *MAC 2312, PHY 2049C  Fall, Spring, Summer
	<b>_ ECH 4323</b> Process Control _____ (3) *ECH 4504, ECH 4604, ECH 4404L +ECH 4615  Spring	<b>_ ECH 4323L</b> Process Control Lab _____ (1) *ECH 4504, ECH 4604, ECH 4404L +ECH 4615  Spring	<b>ECH 4615</b> ChE Process Design II _____ (3) *ECH 4504, ECH 4604, ECH 4404L +ECH 4323, ECH 4323L  Spring	<b>ECH XXXX</b> ChE Elective _____ (3) *ECH 3274L, ECH 3418, ECH 4267 +ECH 4504  Fall, Spring	

Name \_\_\_\_\_  
Student ID \_\_\_\_\_  
E-mail \_\_\_\_\_  
Current GPA \_\_\_\_\_ Date \_\_\_\_\_  
Major \_\_\_\_\_

### Graduation Requirements

- \_ C grade or above in all ECH and BME major courses
- \_ 2.0 Major GPA
- \_ 2.0 Overall GPA
- \_ 128 total credit hours
- \_ AA or General Education Requirements
- \_ Summer Residency Requirement or waiver
- \_ Completion final 30 degree hours at FSU