

Curriculum Guide - Updated September 2019

Chemical Engineering and ChE-Materials Engineering Majors

Florida State University

BS in Chemical Engineering

128 Credit Hours

FRESHMAN YEAR (1ST)		SOPHOMORE YEAR (2ND)		JUNIOR YEAR (3RD)		SENIOR YEAR (4TH)	
Fall Semester	15	Fall Semester	16	Fall Semester	16	Fall Semester	13
CHM 1045 - Gen Chemistry I	3	ECH 3023 - Mass & Energy Bal I	3	ECH 3101 - Thermodynamics	3	ECH 4404L - Unit Ops Lab	3
CHM 1045L - Gen Chem I Lab	1	CHM 2210 - Organic Chem I	3	ECH 3266 - Transport Phenom I	3	ECH 4504 - Kinetics & React Des	3
MAC 2311 - Calculus I ¹	4	MAC 2313 - Calculus III	5	ECH 3854 - ChE Computations	4	ECH 4604 - ChE Process Design I	4
ENC 1101 - English I	3	PHY 2048C - Gen Physics A w/ L	5	ECH 4937 - Chem Engr Statistics	3	Chemical Engr Elective I ⁴	3
Liberal Studies Course #1 ²	3			Liberal Studies Course #5 ²	3		
EGR 1004L - 1st Yr Engr Lab	1						
Spring Semester	14	Spring Semester	16	Spring Semester	16	Spring Semester	13
CHM 1046 - Gen Chemistry II	3	ECH 3024 - Mass & Energy Bal II	4	ECH 3274L - Transport Phen Lab	3	ECH 4323 - Process Control	3
CHM 1046L - Gen Chem II Lab	1	ECH 3301 - Process Anal & Des	4	ECH 3418 - Separations Processes	3	ECH 4323L - Process Control Lab	1
MAC 2312 - Calculus II	4	CHM 2211 - Organic Chem II	3	ECH 4267 - Transport Phenom II	3	ECH 4615 - ChE Process Des. II	3
ENC 2135 - English II	3	PHY 2049C - Gen Physics B w/ L	5	EGM 3512 - Engr Mechanics	4	Chemical Engr Elective II ⁴	3
BSC 2010 - General Biology I	3			CHM/BCH/ECH XXXX - AdvChemEl ⁴	3	EEL 3003 - Intro Electrical Engr	3
Summer Semester ³	9	Summer Semester ³	0	Summer Semester	0	Summer Semester	0
Liberal Studies Course #2 ²	3	<i>(see Note 3, below)</i>					
Liberal Studies Course #3 ²	3						
Liberal Studies Course #4 ²	3						

¹ Students taking MAC 1105, MAC 1114, and/or MAC 1140 as prerequisites to MAC 2311 should take a math course every term (including summers) until completing the math sequence.

² History, Social Science, Ethics, E-series and Humanities electives are to be selected to satisfy the Liberal Studies requirements. Students must choose one course from each of the following categories to fulfill the statewide requirements: [ARH 2000, ANT 2000, ECO 2013, POS 1041, PSY 2012, SYG 1000] and [ARH 2000, HUM 2020, LIT 20000, MUL 2010, PHI 2010, THE 2000]. Two (2) courses must include a writing "W" designation. The Liberal Studies courses taken must include two multicultural course, one course with an "x" designation and one course with a "y" designation. Students must also meet the Civic Literacy requirement by taking AMH 2020 (history) or POS 1041 (social science), or pass the U.S. Citizenship Test at FSU with a 60/100.

³ Most courses shown in the Freshman and Sophomore years of this Guide are also taught during the Summer terms, during which students are encouraged to make up missed classes. Nine (9) hours of summer credit must be taken at one of the twelve state universities in Florida sometime during the college career. EGM 3512 can also be taken during the summer.

⁴ See approved Advanced Chemistry and Chemical Engineering electives on reverse side.