

CURRICULUM PLAN

Bachelor of Science in Chemical Engineering – Pre-Health Emphasis

Term	Course	Cr	Course	Term Completed	Alternate Plan
FRESHMAN YEAR					
<i>Semester 1 - Fall</i>					
	MAC 2311	4	Analytic Geometry and Calculus 1 *		
	CHM 2045	3	General Chemistry *		
	CHM 2045L	1	General Chemistry Laboratory		
	BSC 2011	3	Integrated Principles of Biology II and Lab (4)**		
	GenEd-HS	3	Humanities/Social & Behavioral Sciences		
	<i>Term Credits</i>	14			
<i>Semester 2 - Spring</i>					
	MAC 2312	4	Analytic Geometry and Calculus 2 *		
	CHM 2046	3	General Chemistry and Qualitative Analysis *		
	CHM 2046L	1	General Chemistry and Qualitative Analysis Laboratory		
	PHY 2048	3	Physics with Calculus 1 *		
	PHY 2048L	1	Laboratory for PHY2048		
	GenEd-HS	3	Humanities/Social & Behavioral Sciences		
	<i>Term Credits</i>	15			
SOPHOMORE YEAR					
<i>Semester 3 - Fall</i>					
	MAC 2313	4	Analytic Geometry and Calculus 3 *		
	MAP 2302	3	Elementary Differential Equations*		
	PHY 2049	3	Physics with Calculus 2 *		
	PHY 2049L	1	Laboratory for PHY2049		
	ECH 4934	1	Chemical Engineering Professional Seminar		
1	ECH 3023	4	Material and Energy Balances - F,S		
	<i>Term Credits</i>	16			
<i>Semester 4 – Spring</i>					
2	COT 3502	4	Computer Model Formulation - F,S		
2	ECH 3264	3	Elementary Transport Phenomena F,S		
	CHM 2210	3	Organic Chemistry 1		
	STA 3032	3	Engineering Statistics		
	GenEd-HS	3	Humanities/Social & Behavioral Sciences		
	<i>Term Credits</i>	16			
	Total Lower Div.	61			
<i>Semester 5 – Summer</i>					
	CHM 2211	2	Organic Chemistry Lab (2)		
	CHM 2211	3	Organic Chemistry 2		
	ENC 3246	3	Professional Writing for the Discipline		
	GenEd-HS	3	Humanities/Social & Behavioral Sciences		
	<i>Term Credits</i>	11			

JUNIOR YEAR			
<i>Semester 6 – Fall</i>			
3	ECH 3101	3	Process Thermodynamics - F,S
3	ECH 3203	3	Fluid and Solid Operations - F,S
3	ECH 3223	3	Energy Transfer Operations - F,S
	CHM 4411	4	Physical Chemistry
	<i>Term Credits</i>	16	
<i>Semester 7 – Spring</i>			
4 or 5	ECH 4403	3	Separation and Mass Transfer Operations – F, S
4	ECH 4123	3	Phase and Chemical Equilibria - S, SS - C
	ECH 4224L	2	Fluid and Energy Transfer Operations Lab
	ECH 4714L	2	Safety and Experimental Evaluation Lab
	EEL 3003	3	Introduction to Electrical Engineering
	BCH or CHM	3 or 4	BCH 4024 or CHM 3218 Bioorganic Chemistry (4)
	<i>Term Credits</i>	16 - 17	
SENIOR YEAR			
<i>Semester 8 – Fall</i>			
5	ECH 4504	4	Chemical Kinetics and Reactor Design - F
5	ECH 4604	3	Process Costing and Economic Analysis - F
5	ECH 4824	2	Materials of Chemical Engineering - F
5	ECH 4404L	2	Separation and Mass Transfer Operations Lab - F, S SS
	GenEd-HS	3	Humanities/Social & Behavioral Sciences
	TechEI	3	Technical Elective
	<i>Term Credits</i>	17	
<i>Semester 9 – Spring</i>			
6	ECH 4323	3	Process Control Theory - S
6	ECH 4323L	1	Process Control Laboratory - S
6	ECH 4644	3	Process Design - S
	CHM3120	3	Introduction to Analytical Chemistry
	ChETechEI	3	Chemical Engineering Technical Elective
	TechEI	3	Technical Elective
	<i>Term Credits</i>	16	
	<i>Upper Div. Credits</i>	73	
	<i>BSCHE Credits</i>	134	

Take critical path courses 1-6 in sequence (1-3 minimum grade C within two attempts)

* Preprofessional Critical Tracking Courses, minimum gpa C+

**Students who do not place into BSC 2011/L will need to complete BSC 2010/L first

Area Technical Elective: 3000+ science, math or engineering course. Select from pre-Health professions recommended courses at www.advising.ufl.edu

Chemical Engineering Technical Elective: Suggested ECH 4905 Research, 1 credit per term for 3 terms, or any ECH 3XXX+ level course not already required.