

Chemical Engineering 5 Year Plan of Study for ROTC Students

First Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry	3	PHYS 2305	Foundations of Physics	4
CHEM 1045	General Chemistry Lab	1	ENGE 1216	Foundations of Engineering	2
ENGE 1215	Foundations of Engineering	2	ENGL 1106	First-Year Writing	3
ENGL 1105	First-Year Writing	3	MATH 1226	Calculus of a Single Variable	4
MATH 1225	Calculus of a Single Variable	4			
	ROTC	Varies		ROTC	Varies
Total Credit Hours		15 - 18	Total Credit Hours		15-18

Second Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1036	General Chemistry	3	CHE 2004	CHE Sophomore Seminar	1
CHEM 1046	General Chemistry Lab	1	CHE 2114	Mass & Energy Balances	3
MATH 2204	Multivariable Calculus	3	PHYS 2306	Foundations of Physics	4
MATH 1114 OR	Elem. Linear Algebra OR	2	MATH 2214	Differential Equations	3
MATH 2114	Intro to Linear Algebra	3	STAT 4604 OR	Stat Methods for Engrs. OR	3
	Area 6	1	STAT 4705 OR	Prob & Stat for Engrs. OR	
	Area 3	3	STAT 4714	Prob & Stat for EE	
	ROTC	Varies		ROTC	Varies
Total Credit Hours		14-18	Total Credit Hours		15-18

Third Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHE 2164	CHE Thermodynamics	3	CHE 2124	CHE Simulations	3
CHEM 2535 OR	Organic Chemistry I OR	3	CHEM 2536 OR	Organic Chemistry II OR	3
CHEM 2565	Principles of Org. Chemistry I		CHEM 2566	Principles of Org. Chemistry II	
CHEM 2545	Organic Chemistry Lab	1	CHEM 2546	Organic Chemistry Lab	1
CHEM 3615	Physical Chemistry	3	CHEM 3625	Physical Chemistry Lab	1
	Area 3	3		Area 2	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		14 - 19	Total Credit Hours		12-17

Fourth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHE 3114	Fluid Transport	3	CHE 3184	Chemical Reactor Analysis	3
CHE 3134	Separation Processes	3	CHE 3044	Heat Transfer	3
ENGL 3764	Technical Writing	3	CHE 3015	Process Meas. & Controls	3
MATH 4564	Operational Methods	3	CHE 3144	Mass Transfer	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 18	Total Credit Hours		13-18

Summer I or Summer II

Course	Course Title	Credits
CHE 4014	Chemical Engineering Laboratory	5

Fifth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHE 4104	Process Materials	3	CHE 4186	Process and Plant Design II	4
CHE 4185	Process and Plant Design I	4	CHE 4134	Chemical Process Modeling	1
	Area 7	3		Area 2	3
	Technical Elective	3		Technical Elective	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 15	Total Credit Hours		11-16