

**CHEMICAL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE
(135 CREDIT HOURS REQUIRED)**

FRESHMAN YEAR					
<i>First Semester</i>	<i>Fall</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Spring</i>	<i>Hours</i>
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	Engr. Appl. Lab II for Math	1	GNEG 1121	Engr. Appl. Lab III for Math	1
CHEG 1011 & 1021	Introduction to Chemical Engineering & Lab	2	CHEM 1034	Chemistry for Engineers	4
ELEG 1043	Computer Appl. in Engineering	3	CHEM 1021	Inorganic Chemistry Laboratory II	1
ENGL 1123	Freshman Composition I	3	PHYS 2513	University Physics I	3
SPCH 1003	Fund. of Speech Communication	3	PHYS 2511	General Physics Lab I	1
			ENGL 1143	Technical Writing	3
Total		16	Total		17

SUMMER SESSIONS					
<i>First Term</i>		<i>Hours</i>	<i>Second Term</i>		<i>Hours</i>
POSC 1113	American Government	3	HIST 1313	U.S. to 1876	3
			Total		6

SOPHOMORE YEAR					
<i>First Semester</i>	<i>Fall</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Spring</i>	<i>Hours</i>
CHEG 2013	Materials Science	3	CHEG 2053	Material and Energy Balances	3
CHEG 2043	Chemical Engr. Thermo. I	3	CHEM 2043	Organic Chemistry II	3
CHEM 2033	Organic Chemistry I	3	ELEG 2053	Introduction to Elect. Engineering	3
PHYS 2523	University Physics II	3	CVEG 2454	Statics and Dynamics	4
PHYS 2521	General Physics Lab II	1	CHEG 2003 ⁺	Economic Analysis and Technical Applications	3
MATH 2043	Differential Equations	3			
Total		16	Total		16

SUMMER SESSIONS					
<i>First Term</i>		<i>Hours</i>	<i>Second Term</i>		<i>Hours</i>
*CHEG 2156	Chemical Engineering Internship I	6			
Total		6			

JUNIOR YEAR					
<i>First Semester</i>	<i>Fall</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Spring</i>	<i>Hours</i>
CHEG 3053	Chemical Engin. Thermodynamics II	3	CHEG 3063	Chem. React. Kin./Reactor Design	3
CHEG 3013	Heat, Mass, and Momentum Trans.	3	CHEG 3043	Equilibrium Staged Sep. Processes	3
CHEG 3023	Unit Operations	3	MATH 3685	Mathematics for Engineers	5
CHEM 3413	Physical Chemistry I	3		Advanced Chemistry Elective***	3
	Humanities or Visual/Performing Arts Elective	3		Chemistry Lab Elective**	2
Total		15	Total		16

SUMMER SESSIONS					
<i>First Term</i>		<i>Hours</i>	<i>Second Term</i>		<i>Hours</i>
*CHEG 3156	Chemical Engineering Internship II	6			
Total		6			

SENIOR YEAR					
<i>First Semester</i>	<i>Fall</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Spring</i>	<i>Hours</i>
CHEG 3051	Professional Engineering I	1	CHEG 4031	Chemical Engineering Lab III	1
CHEG 4043	Process Design and Analysis	3	CHEG 4483	Senior Design and Professionalism II	3
CHEG 4033	Proc. Dynamics and Control	3		Technical Elective	3
CHEG 4473	Senior Design and Professionalism I	3		Social or Other Behavioral Science Elective	3
CHEG 4011	Chemical Engineering Lab II	1		Visual and Performing Arts Elective	3
HIST 1323	The U.S.-1876 to Present	3	POSC 1123	American Government II	3
	Technical Elective	3			
Total		17	Total		16

* Course may be taken for credit during a summer internship, but is not required in degree plan.

** Taking one of the following courses will satisfy this requirement: CHEM 2032, 2042, 3422, 3432, 4042, or 4052. Note that course pre- and co-requisites must also be satisfied.

*** Taking one of the following courses will satisfy this requirement: CHEM 3423, 4023, 4033, 4053, 4063, or 4073. Note that course pre- and co-requisites must also be satisfied.