

CHEMICAL ENGINEERING CURRICULUM
Bold = minimum grade requirement of C-

FIRST YEAR			
FALL	CR	SPRING	CR
Intro Microeconomics ECON04.102	3	Composition I COMP01.111	3
Calculus I MATH01.130	4	Calculus II MATH01.131	4
College Chemistry I CHEM06.100	4	College Chemistry II CHEM06.101	4
Fresh. Engineering Clinic I ENGR01.101	2	Fresh. Engineering Clinic II ENG01.102	2
Intro to Sci Prog CS01.104 (3 CR) <i>OR</i> Intro Prgm CS01.102 (3 CR) <i>OR</i> Comp Sci & Prgm. CS04.103 (4 CR)	3	Introductory Mechanics PHYS02.200	4
Total	16	TOTAL	17

SECOND YEAR			
FALL	CR	SPRING	CR
Principles Chemical Processes I CHE06.201	2	Principles Chemical Processes II CHE06.202	2
Calculus III MATH01.230	4	Math for Engrg Analysis MATH01.235	4
Approved Biological Science Elective ¹	3	ChE Fluid Mechanics CHE06.241	2
Organic Chemistry I CHEM07.200	4	Approved Advanced Chemistry Elective I ²	3
Soph. Engineering Clinic I ENGR01.201	4	Soph. Engineering Clinic II ENGR01.202	4
TOTAL	17	TOTAL	15

THIRD YEAR			
FALL	CR	SPRING	CR
ChE Thermodynamics I CHE06.310	3	ChE Thermodynamics II CHE06.315	3
Separation Processes I CHE06.312	2	Separation Processes II CHE06.314	4
Process Fluid Transport CHE06.309	2	Chem Reaction Engineering CHE06.316	4
Jr Engineering Clinic I ENGR01.301	2	Jr Engineering Clinic II ENGR01.302	2
Heat Transfer Processes CHE06.311	2	<i>General Education (____)</i>	3
ChE Materials CHE06.381	2		
<i>General Education (____)</i>	3		
TOTAL	16	TOTAL	16

FOURTH YEAR			
FALL	CR	SPRING	CR
Chem. Process Component Design CHE06.401	4	Chemical Plant Design CHE06.406	3
Unit Opns Exper. Design & Analysis CHE06.403	2	Unit Operations Lab CHE06.404	2
Process Dynamics & Control CHE06.405	3	Approved Adv Chemistry Elective II	3
Approved ChE Elective I CHE06.____	3	Approved ChE Elective II CHE06.____	3
Sr Engineering Clinic I ENGR01.401	2	Sr Engineering Clinic II ENGR01.402	2
<i>General Education (____)</i>	3	<i>General Education (____)</i>	3
TOTAL	17	TOTAL	16

TOTAL 130

Notes:

¹ Biology for Chemical Engineers (BIOL 01.211) will be scheduled as the default choice.

Alternate Bio electives: Bio I: Diversity, Evolution & Adaptation (BIOL 01104); Gen Bio: Environmental Focus (BIOL 01112); Gen Bio: Human Focus (BIOL 01113); Human Anatomy & Physiology (BIOL 01210); Human Biology (BIOL 01110)

² Industrial Org Chem will be scheduled as the default choice.