

### 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
<b>Calculus I MATH01.130</b>	4	<b>Calculus II MATH01.131</b>	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
<b>Total</b>	<b>16</b>	<b>TOTAL</b>	<b>17</b>

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

THIRD YEAR			
FALL	CR	SPRING	CR
<b>ChE Thermodynamics I CHE06.310</b>	3	ChE Thermodynamics II CHE06.315	3
<b>Separation Processes I CHE06.312</b>	2	Separation Processes II CHE06.314	4
Process Fluid Transport CHE06.309	2	<b>Chem Reaction Engineering CHE06.316</b>	4
Jr Engineering Clinic I ENGR01.303	2	Jr Engineering Clinic II ENGR01.303	2
Heat Transfer Processes CHE06.311	2	<i>General Education (____)</i>	3
ChE Materials CHE06.381	2		
<i>General Education (____)</i>	3		
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>16</b>

FOURTH YEAR			
FALL	CR	SPRING	CR
<b>Chem. Process Component Design CHE06.401</b>	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 ENGR01.403	2	Sr Engineering Clinic II ENGR01.403	2
<i>General Education (____)</i>	3	<i>General Education (____)</i>	3
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>16</b>

**TOTAL 130**

Notes: <sup>1</sup> 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)

<sup>2</sup> Industrial Org Chem will be scheduled as the default choice.