

**Chemical Engineering**  
**Bachelor of Science (B.S.Ch.E.) <032T>**  
 Catalog Year 2016-17

First Semester				Second Semester			
ENGL	101	Composition and Rhetoric ( <i>GEF 1</i> )	3.00	ENGL	102	Composition and Rhetoric ( <i>GEF 1</i> )	3.00
CHE	100	Intro to Chemical Engineering	2.00	ENGR	111	Software Tools for Engineers	3.00
CHEM	115	Fund of Chemistry I ( <i>GEF 2</i> )	4.00	CHEM	116	Fund of Chemistry II ( <i>GEF 8</i> )	4.00
MATH	155	Calculus I ( <i>GEF 3</i> )	4.00	MATH	156	Calculus II ( <i>GEF 8</i> )	4.00
WVUE	191	Freshman Seminar	1.00	<i>GEF</i>	5	Human Inquiry and the Past	3.00
			<b>14.00</b>				<b>17.00</b>
Third Semester				Fourth Semester			
CHE	201	Material and Energy Balances I	3.00	CHE	202	Material and Energy Balances II	3.00
CHEM	233	Organic Chemistry I	3.00	CHEM	234	Organic Chemistry II	3.00
CHEM	235	Organic Chemistry I Lab	1.00	BIOL	240	Microbiology	4.00
MATH	251	Multivariable Calculus	4.00	PHYS	112	Physics Sci & Engr II ( <i>GEF8</i> )	4.00
PHYS	111	Physics Sci & Engr I ( <i>GEF 8</i> )	4.00	CSAD	270	Effective Public Speaking ( <i>GEF 4</i> )	3.00
			<b>15.00</b>				<b>17.00</b>
Fifth Semester				Sixth Semester			
CHE	316	Transport Operations	4.00	CHE	312	Separation Processes	4.00
CHE	330	Modeling and Analysis	3.00	CHE	327	Kinetics & Reactor Design	3.00
CHE	320	Chemical Engr Thermodynamics	3.00	CHE	350	Chemical Engineering Laboratory	2.00
CHE	357	Design Laboratory 1	2.00	CHE	318	Particle Process Operations	2.00
<i>GEF</i>	6	The Arts and Creativity	3.00	CHE	358	Design Laboratory 2	2.00
			<b>15.00</b>	<i>GEF</i>	7	Global Studies and Diversity	3.00
							<b>16.00</b>
Seventh Semester				Eighth Semester			
CHE	316	Design Laboratory 3	3.00	CHE	458	Design Laboratory 4	3.00
CHE	330	Unit Operations Lab 1	2.00	CHE	451	Unit Operations Lab 2 <sup>(2)</sup>	2.00
CHE	320	Process Dynamics & Control	3.00	ENGR	401	Senior Seminar	1.00
		Advanced Science Elective	4.00	CHEM		Adv. Chemistry Elective	3.00
		Enhancement Elective <sup>(1)</sup>	3.00			Chemical Engineering Elective <sup>(1)</sup>	3.00
			<b>15.00</b>			Enhancement Elective <sup>(1)</sup>	3.00
							<b>15.00</b>

**Total hours necessary to earn the B.S.Ch.E. degree = 124.00**

Notes: <sup>(1)</sup> Chemical and Enhancement electives must be selected with advisor approval.

<sup>(2)</sup> CHE 451 is certified as a writing course.