

## Chemical Engineering Curriculum

<b>Freshman Year</b>			
<b>1st Semester</b>		<b>2nd Semester</b>	
<b>Course</b>	<b>Credits</b>	<b>Course</b>	<b>Credits</b>
MAT151 Calculus I	4	MAT152 Calculus II	4
CHE201 General Chemistry I	4	CHE202 Gen. Chemistry II	4
PHY203 Intro to Physics I	3	PHY204 Intro to Physics II	3
PHY215 Intro to Physics Lab I	1	PHY216 Intro to Physics Lab II	1
EGR101 Intro to Engr.	2	EGR102 Intro Structured Programming	3
ENG101 Written Communications I	3	ENG102 Written Communications II	3
UNV101 Individual and Life	1		
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>18</b>
<b>Sophomore Year</b>			
<b>1st Semester</b>		<b>2nd Semester</b>	
<b>Course</b>	<b>Credits</b>	<b>Course</b>	<b>Credits</b>
MAT260 Differential Equations	3	EGR208 Engineering Analysis I	3
EGR219 Engineering Mechanics	3	CME202 Chem. Engng Calc. II	3
CME201 Chem. Engng Calc. I	2	CME303 Transport Phenom I	3
CHE301 Organic Chemistry I	4	CHE302 Organic Chemistry II	4
COM103 Oral Communications	3	BIO105 Intro. to Biology	4
HEA200 Health Education	2		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>
<b>Junior Year</b>			
<b>1st Semester</b>		<b>2nd Semester</b>	
<b>Course</b>	<b>Credits</b>	<b>Course</b>	<b>Credits</b>
HUM201 Humanities and Arts	3	HUM202 Humanities and Arts	3
EGR307 Engineering Analysis II	3	CME308 Chem. Reaction Engng	3
CME307 Chem. Eng. Thermodynamics	4	CME306 Separation Operations	4
CME304 Transport Phenomena II	3	CHEXXX Advanced Chemistry Elective *	4
EGR226 Basic Elect. Engng	3	HIS106 World Civil. II	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

Senior Year			
1st Semester		2nd Semester	
Course	Credits	Course	Credits
CME405 Process Control	3	CME408 Chem. Process Des.II	3
CME407 Chem. Process Design I	3	CME412 Chem. Engng Lab II	2
CME409 Data Anal. and Design Exp.	1	CME420 Chem. Engng Seminar	1
CME411 Chem. Engng Lab I	2	EGR303 Engineering Materials	3
Social Science Elective	3	Social Science Elective	3
Technical Elective	3	Technical Elective	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>Total Credit Hours: 133</b>			

\* From the following courses: CHE 402 Physical Chemistry II; CHE 408 Advanced Analytical Chemistry; CHE 419 Advanced Inorganic Chemistry; CHE 501 Biochemistry; CHE 505 Molecular Spectroscopy; CHE 510 Polymer Chemistry; CHE 517 Modern Methods of Chemical Analysis.

\*\* Students interested to go into biochemical or biomedical engineering should discuss with their advisors taking biology courses as extra electives.