

# CHEMICAL ENGINEERING (BS)

## Suggested Sequence of Courses for a Bachelor of Science Degree in Chemical Engineering

Course	Title	Hours
<b>Freshman Year</b>		
<b>First Semester</b>		
ENGR-1200	Introduction to Engineering	2
CHEM-1200	General Chemistry I Lecture	3
CHEM-1201	General Chemistry I Laboratory	1
MATH-1300	Calculus I	4
PHYS-2100	Classical Physics I	3
PHYS-2101	Classical Physics I Lab	1
EXSC-1115	Wellness for Life	1
GNST-1000	BC Experience	1
<b>Hours</b>		<b>16</b>
<b>Second Semester</b>		
CHEM-1210	General Chemistry II Lecture	3
CHEM-1211	General Chemistry II Lab	1
MATH-1350	Calculus II	4
PHYS-2110	Classical Physics II	3
PHYS-2111	Classical Physics II Lab	1
ENGL-1010	English Composition	3
THEO-1100	Introduction to Theology	3
<b>Hours</b>		<b>18</b>
<b>Sophomore Year</b>		
<b>First Semester</b>		
CENG-2010	Chemical Engineering Fundamentals	3
CHEM-2200	Organic Chemistry I Lecture	3
CHEM-2201	Organic Chemistry I Lab	1
MATH-2300	Calculus III	4
Historical Foundation		3
PHIL-1750	Principles of Nature	3
<b>Hours</b>		<b>17</b>
<b>Second Semester</b>		
THEO-2000	Christian Moral Life	3
CENG-3300	Unit Operations	3
ENGR-3150	Statistical Analysis of Data	3
ENGR-3250	Thermodynamics	3
CHEM-2210	Organic Chemistry II Lecture	3
MATH-3100	Differential Equations	3
<b>Hours</b>		<b>18</b>
<b>Junior Year</b>		
<b>First Semester</b>		
CENG-3250	Chemical Engineering Thermodynamics	3
Advanced Chemistry Elective		3
ENGR-3500	Materials Science	3
THEO-2000	Christian Moral Life	3
ENGR-3170	Engineering Economy & Society	3

CENG-3350	Chemical Engineering Laboratory I	2
<b>Hours</b>		<b>17</b>
<b>Second Semester</b>		
CENG-3050	Separations	3
CENG-4820	Bioprocess Engineering	3
ENGR-3410	Thermofluids Laboratory	2
ENGR-3600	Heat & Mass Transfer	3
Aesthetic Foundation		3
PHIL-3250	Ethics	3
<b>Hours</b>		<b>17</b>
<b>Senior Year</b>		
<b>First Semester</b>		
CENG-4600	Plant Design I	3
CENG-4080	Chemical Process Dynamics & Control	3
CENG-4210	Reactor Design	3
Foreign Language		4
Historical Foundation		3
<b>Hours</b>		<b>16</b>
<b>Second Semester</b>		
CENG-4610	Plant Design II	3
Faith Foundation		3
Chemical Engineering Elective		3
Foreign Language		4
Aesthetic Foundation		3
<b>Hours</b>		<b>16</b>
<b>Ninth Semester</b>		
CENG-COMP	Senior Comprehensive Exam	0
CENG-4350	Chemical Engineering Laboratory II	3
ENGR-4840	Quality Engineering	3
Chemical Engineering Elective		3
EENG-2060	Linear Circuit Analysis I	3
Philosophical Inquiry		3
EXSC Fitness Course		1
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>151</b>