Requirements Effective Fall 2017 COMPLETED _____ DATE _____
Min. Grad. Req: 128 Hrs, 40 UD Hrs., 2.0 GPA

ENGINEERING (CHEMICAL)

NAME	I.D.#	Expected Grad Date	B.S.E. Degree

General Education Requirements

3 THEO 101 Christian Formation
3 BLIT 202 Christian Scriptures I
3 BLIT 303 Christian Scriptures II
3 THEO 404 Christian Faith
3 ENGL 109 College Writing I
3 COMM 105 Fundamentals of Communication
3 FINA 101 Intro to Fine Arts
3 HIST 200 Western Civilization
3 LIT 205 Studies in Literature
3 Select from: ECON 110, PSCI 101, PSCI 223, PSYC 101, SOCY 120
0-8 Elementary I, II Foreign Language or approved International Culture courses
2-3 PHED 190 Wellness or PHED 126 Nutrition
1 PHED 191 Applied Fitness

Required Supporting Courses:

4 CHEM 103 General Chemistry I
4 CHEM 104 General Chemistry II
4 MATH 147 Calculus I
4 MATH 148 Calculus II
4 MATH 261 Calculus III
3 MATH 357 Differential Equations
5 PHYS 201 General Physics I
5 PHYS 202 General Physics II

Major: 64 hours

3 ENGR 101 Engineering Design I
2 ENGR 401 Senior Project Design I
2 ENGR 402 Senior Project Design II
3 ENGR 403 Engineering Economics
3 ENGR 404 Tech. Comm./Exper. Design

PLUS completion of the following concentration:

A. Chemical Concentration

4 BIOL 125 Biology I
5 CHEM 311 Organic Chemistry I
5 CHEM 312 Organic Chemistry II
4 CHEM 335 Biochemistry
4 CHEM 482 Physical Chem – Thermodynamics
4 CHEM 493 Phys, Chem – Kinetics/Molecular Structure
3 ENGR 102 Engineering Design II
3 ENGR 107 Computational Engineering
3 ENGR 210 Thermo-Fluids Engineering
3 ENGR 211 Statics & Mechanics
3 ENGR 220 Electrical Circuits & Systems
4 ENGR 361 Material and Energy Balances
3 ENGR 461 Mass Transfer & Staging Operations
3 ENGR 462 Kinetics & Reactor Design