Requirements Effective Fall 2023 COMPLETED _____ DATE _____
Min. Grad. Req: 120 Hrs, 30 UD Hrs., 2.0 GPA Institutional & Cumulative

ENGINEERING (CHEMICAL)

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

General Education Requirements

3 THEO 110 Intro to Christianity
3 BLIT 210 Christian Scriptures
3 CMIN 310 Christian Living
3 Approved Stewardship Course* _____
3 ENGL 109 College Writing I
3 COMM 105 Fundamentals of Communication
3 HIST 200 Western Civilization
3 Approved Social Science Course* _____
6 Approved Humanities Courses*
Select 3 hours from two different areas:
Fine Arts, Literature, Philosophy,
SPAN 212 _____

3-8 Elementary Foreign Language I ***and*** II
(FREN 101 ***and*** FREN 102) ***OR***
(SPAN 111 ***and*** SPAN 112)
OR Approved International Culture course*

_____

3-4 BIOL 201 or approved biological science course*
_____

***See olivet.edu/registrar for approved list of courses**

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
4 PHYS 201 General Physics I
4 PHYS 202 General Physics II

Major: 56 hours – 2.000 required in major

3 ENGR 101 Engineering Design I
3 ENGR 401 Senior Design Project I/Tech Comm
2 ENGR 402 Senior Design Project II/Exprmt Dsgn
3 ENGR 403 Engineering Economics

PLUS completion of the following concentration:

A. Chemical Concentration

5 CHEM 311 Organic Chemistry I
5 CHEM 312 Organic Chemistry II
3 ENGR 102 Engineering Design II
3 ENGR 107 Computational Engineering **OR**
COMP 150 Programming: Control Structures

4 ENGR 212 Engineering Mechanics **OR**
3 ENGR 213 Statics **and**
3 ENGR 215 Dynamics **OR**
3 ENGR 216 Mechanics of Materials

3 ENGR 220 Electrical Circuits & Systems
4 ENGR 323 Automatic Controls
4 ENGR 261 Material and Energy Balances
2 ENGR 300 Thermofluids Lab
3 ENGR 362 Chemical Thermodynamics
3 ENGR 461 Chemical & Biochemical Separation Engineering
3 ENGR 462 Chemical & Biochemical Reaction Engineering

All required Engineering and supporting Math and Science courses must be completed with a grade of C or better to be eligible for graduation.