

2025-2026 Academic Year

Requirements Effective Fall 2023

Min. Grad. Req: 120 Hrs., 30 UD Hrs., 2.0 GPA Institutional & Cumulative

Reviewed by: _____

Date: _____

(B.S.E) ENGINEERING (ARCHITECTURAL, CIVIL or MECHANICAL)

Name & Student ID #

Expected Graduation Date:

General Education Requirements

- 3 THEO 110 Intro to Christianity
- 3 BLIT 210 Christian Scriptures
- 3 CMIN 310 Christian Living
- 2-3 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, or SPAN 212

3-8 Elementary Foreign Language I & II (SPAN 111/112 or FREN 101/102)
OR an approved Intercultural Understanding course*

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

- * See olivet.edu/registrar for an approved list of courses
- Students completing a minor must complete a minimum of 6 unique hours between major and minor.
- Students pursuing a double major or greater must complete a minimum of 20 unique hours (excludes supporting courses)

Required Supporting Courses (30-31 Hours)

- 4 CHEM 103 General Chemistry I (GER: PHYS SCI)
- 4 MATH 147 Calculus I (GER: MATH)
- 4 MATH 148 Calculus II
- 3-4 MATH 241 Statistics **OR**
- MATH 351 Linear Algebra
- 4 MATH 261 Calculus III
- 3 MATH 357 Differential Equations
- 4 PHYS 201 General Physics I (GER: PHYS SCI)
- 4 PHYS 202 General Physics II

Major: 17 hours (2.0 GPA Required)

- 3 ENGR 101 Engineering Design I
- 3 ENGR 102 Engineering Design II
- 3 ENGR 107 Computational Engineering **OR**
- COMP 150 Programming: Control Structures
- 3 ENGR 401 Senior Design Project I/Tech Comm (GER: CW2)
- 2 ENGR 402 Senior Design Project II/Expert Design
- 3 ENGR 403 Engineering Economics

And completion of one concentration:

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

A. Architectural Concentration (42 Hours)

- 3 ENGR 210 Thermo-Fluids Engineering
- 3 ENGR 213 Statics
- 3 ENGR 215 Dynamics
- 3 ENGR 216 Mechanics of Materials
- 3 ENGR 220 Electrical Circuits and Systems
- 3 ENGR 255 Introduction to Architectural Engineering
- 3 ENGR 351 Structural Analysis
- 3 ENGR 352 Structural Steel Design
- 3 ENGR 353 Reinforced Concrete Design
- 3 ENGR 355 Building Information Modeling
- 3 ENGR 455 Construction Management
- 3 ENGR 456 Electrical Building Systems
- 3 ENGR 457 Mechanical Building Systems
- 3 GEOG 360 GIS and GPS

B. Civil Concentration (45 Hours)

- 3 ENGR 210 Thermo-Fluids Engineering
- 3 ENGR 213 Statics
- 3 ENGR 215 Dynamics
- 3 ENGR 216 Mechanics of Materials
- 3 ENGR 220 Electrical Circuits and Systems
- 3 ENGR 235 Introduction to Environmental Engineering
- 3 ENGR 251 Transportation Planning and Analysis
- 3 ENGR 351 Structural Analysis
- 3 ENGR 352 Structural Steel Design
- 3 ENGR 353 Reinforced Concrete Design
- 3 ENGR 354 Introduction to Soil Mechanics
- 3 ENGR 356 Collection/Pumping of Water/Wastewater
- 3 ENGR 451 Storm Water Hydraulics/Hydrology
- 3 ENGR 452 Site Design
- 3 ENGR 455 Construction Management

C. Mechanical Concentration (40-42 Hours)

- 3 ENGR 213 Statics
- 3 ENGR 215 Dynamics
- 3 ENGR 216 Mechanics of Materials
- 3 ENGR 220 Electrical Circuits and Systems
- 2 ENGR 300 Thermofluids Lab
- 4 ENGR 311 Material Science
- 3 ENGR 312 Thermodynamics
- 3 ENGR 314 Computer Aided Engineering with Creo
- 3 ENGR 315 Fluid Mechanics
- 4 ENGR 323 Automatics Controls
- 3 ENGR 412 Machine Design and Dynamics

Plus 2 additional upper-division (300/400 level) ENGR courses to be approved by the Department of Engineering.

