

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 (COMPUTER or ELECTRICAL)

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: 14 Hours (2.0 GPA Required)

- 3 ENGR 101 Engineering Design I
- 3 ENGR 102 Engineering Design II
- 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. Computer Concentration (49-51 Hours)

- 3 COMP 150 Programming: Control Structures
- 3 COMP 237 Networking Technologies
- 3 COMP 250 Programming: Data Structures
- 3 COMP 311 Discrete Mathematics
- 3 COMP 338 Wireless Technologies & RF
- 3 ENGR 210 Thermo-Fluids Engineering
- 4-6 ENGR 212 Engineering Mechanics **OR**
ENGR 213 Statics **AND**
3 ENGR 215 Dynamics **OR**
3 ENGR 216 Mechanics of Materials
- 4 ENGR 221 Digital Systems
- 3 ENGR 222 Electric Circuit Analysis
- 4 ENGR 322 Analog Electronics
- 3 ENGR 324 Power Systems
- 3 ENGR 341 Embedded Systems
- 4 ENGR 421 Circuits and Signal Processing **OR**
ENGR 422 Communication Systems
- 3 ENGR 441 Computer Architecture

Plus 1 additional upper division (300/400 level) ENGR course to be approved by the Department of Engineering.

B. Electrical Concentration (44-46 Hours)

- 3 COMP 237 Networking Technologies
- 3 COMP 338 Wireless Technologies & RF
- 3 ENGR 107 Computational Engineering **OR**
COMP 150 Programming Control Structures
- 3 ENGR 210 Thermofluids Engineering
- 4-6 ENGR 212 Engineering Mechanics **OR**
ENGR 213 Statics **AND**
3 ENGR 215 Dynamics **OR**
3 ENGR 216 Mechanics of Materials
- 4 ENGR 221 Digital Systems
- 3 ENGR 222 Electric Circuit Analysis
- 4 ENGR 322 Analog Electronics
- 4 ENGR 323 Automatic Controls
- 3 ENGR 324 Power Systems
- 3 ENGR 341 Embedded Systems
- 4 ENGR 421 Circuits and Signal Processing **OR**
ENGR 422 Communication Systems

Plus 1 additional upper division (300/400 level) ENGR course to be approved by the Department of Engineering.