Requirements Effective Fall 2023 COMPLETED _____ DATE _____

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

ENGINEERING (COMPUTER or ELECTRICAL)

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 cour
  _____
- 3-4 BIOL 201 or approved biological science course*
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***See olivet.edu/registrar for approved list of courses**

Required Supporting Courses:

- 4 CHEM 103 General Chemistry I
- 4 MATH 147 Calculus I
- 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
- 4 PHYS 202 General Physics II

Major: 57-60 hours – 2.000 required in major

- 3 ENGR 101 Engineering Design I
- 3 ENGR 102 Engineering Design II
- 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 one of the following concentrations:

A. Computer Concentration:

- 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 ENGR 212 Engineering Mechanics **OR**
- 3 ENGR 213 Statics **and**
  - 3 ENGR 215 Dynamics **OR**
  - 3 ENGR 216 Mechanics of Materials
- 3 ENGR 221 Digital Systems
- 3 ENGR 222 Electric Circuit Analysis
- 3-4 ENGR 321 Digital Electronics **OR**
  ENGR 322 Analog Electronics
- 3 ENGR 341 Embedded Systems
- 3-4 ENGR 421 Circuits and Signal Processing **OR**
  ENGR 422 Communication Systems
- 3 ENGR 441 Computer Architecture

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

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B. Electrical Concentration:

- 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 Thermo-Fluids Engineering
- 4 ENGR 212 Engineering Mechanics **OR**
- 3 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 341 Embedded Systems
- 3-4 ENGR 421 Circuits/Signal Process.**OR**
  ENGR 422 Comm. Systems

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

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