BS Engineering – Mechanical Engineering (MENG) Concentration – 2022

**FRESHMAN**
- Fall: ENGR 1012 (2) Engineering Graphics
- Spring: ENGR 1016 (2) Introduction to Engineering Design
  - MATH 1083 or higher
  - P/C: MATH 1083 or higher

**SOPHOMORE**
- Fall: ENGR 2000 (1) Engineering Design/PM I
- Spring: ENGR 2001 (1) Linear Algebra Lab
  - MATH 2152

**JUNIOR**
- Fall: ENGR 2450 (3) Statics
  - ENGR 2201
  - CHEM 1150
- Spring: ENGR 2514 (4) Circuit Analysis
  - MATH 4331
  - ENGR 2001
  - ENGR 3034*, ENGR 2450*

**SENIOR**
- Fall: ENGR 3000 (2) Engineering Design/PM II
  - ENGR 3420 (2) Engineering Economics
  - MATH 3307

**Math/Science: 32 hours**
- Fall: MATH 2171 (4) Calculus I
- Spring: MATH 2153 (3) Calculus III
  - ENGR 2450
  - P/C: MATH 2152
  - P/C: PHYS 2350

**General: 27 hours**
- Fall: ENGL 1100 (3) Composition
- Spring: ENGL 2201 (3) Writing about the Disciplines
  - Social Sciences Elective (3)
  - Humanities/Fine Arts Elective (3)

**Humanities/Fine Arts Elective (3)**
- Fall: ENGR 1000 (1) Intro to Engineering
- Spring: ENGR 2050 (3) Computer Applications in Engineering
  - MATH 1083 or higher

Revision Date: June 13, 2022
See other side for legend, other important information

Cumulative Credit hours
- Fall: 17/49
- Spring: 17/66
- Total: 15/97

Credits per Semester
- Fall: 17/66
- Spring: 16/82

Credits for Semester
- Fall: 15/32
- Spring: 14/111

Credits for Year
- Fall: 14/125
- Spring: 14/125
• Concentration-specific courses are **only** offered in the semester shown on this sheet.

• **Diversity:** At least one elective course must be designated as GD (Global Diversity) and at least one elective course must be designated as DD (Domestic Diversity).

• **Humanities/Fine Arts:** Must complete at least one course in the humanities and one course in fine arts.

• **Social Sciences:** Must complete courses in at least two different subject areas.

• Students may take **BIOL 1100/1101 Principles of Biology I/Lab** in lieu of **BIOL 1050/1051 General Biology I/Lab**

• Students may use **MATH 2154 Engineering Linear Algebra and Differential Equations** as a prerequisite in lieu of **ENGR 2001 Linear Algebra Lab** or **MATH 4331 Introduction to Ordinary Differential Equations**

• Approved technical electives for the **Mechanical Engineering Concentration** (as of Fall 2021)
  – Any 3000, 4000, or 5000 level engineering class not required for the MENG concentration will count as a technical elective
  – MATH 4101: Advanced Calculus I
  – MATH 4332: The Calculus of Finite Differences
  – MATH 5774/CSCI 5774: Programming for Research
  – PHYS 3700: Advanced Laboratory
  – PHYS 4310 Modern Optics
  – PHYS 4326 Electricity and Magnetism I
  – PHYS 4327 Electricity and Magnetism II
  – PHYS 4610

Note: This chart is for planning purposes only. It is the student’s responsibility to ensure that requirements as detailed in the Undergraduate Catalog are met.