

BSE – Mechanical Engineering (MENG) Concentration

FRESHMAN

SOPHOMORE

JUNIOR

SENIOR

Bold border denotes class with lab

Dashed border denotes minimum grade of C required

Engineering
39 core hours +
26 concentration hours

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.

Math/Science
32 hours

General
31 hours

ENGR 1012 (2)
Engineering Graphics

C: MATH 1083 or higher

ENGR 1000 (1)
Introduction to Engineering

ENGR 1016 (2)
Intro to Eng Design

ENGR 2050 (3)
Computer Applications in Engineering

MATH 1083 or higher

MATH 2151 (3)
Calculus I

MATH 1083 or Placement test

MATH 2152 (3)
Calculus II

BIOL 1050/1051 or 1100/1101 (4)
General Biology

CHEM 1150/1151 (4)
General Chemistry

ENGL 1100 (3)
Composition

ENGL 2201 (3)
Writing About the Disciplines

Social Sciences Elective (3)

ENGR 2022 (3)
Statics

C: PHYS 2350
P: MATH 2152

ENGR 2450 (3)
Dynamics

ENGR 2000 (1)
Engineering Design/PM I

ENGR 2070 (3)
Materials and Processes

ENGL 2201
CHEM 1150

MATH 2153 (3)
Calculus III

ENGR 2050

PHYS 2350 (4)
University Physics I

PHYS 2360 (4)
University Physics II

ECON 2113 (3)
Microeconomics

Humanities/ Fine Arts Elective (3)

ENGR 3420 (2)
Engineering Economics

MATH 2152

ENGR 3012 (4)
Thermo and Fluid Systems

MATH 2154

MENG 3624(3)
Solid Mechanics

MATH 2154

ENGR 2514 (4)
Circuit Analysis

MATH 2152

MATH 3307 (3)
Engineering Statistics

KINE 1000 (1)
Lifetime Physical Activity

MATH 2154 (4)
DEQ and Linear Algebra

ENGR 3000 (2)
Engr Design & PM II

ENGR 2000

MENG 3070 (3)
Thermo I

ENGR 2450
MATH 2154

MENG 4150 (3)
Fluid Mechanics

ENGR 2450
MATH 2154

MENG 4650 (3)
Machine Design

ENGR 3024

ENGR 3800 (3)
Quality Control for Engineers

HLTH 1000 (2)
Health in Modern Society

Humanities/ Fine Arts Elective (2)

ENGR 4010 (2)
Senior Capstone Design I

ENGR 3420
MENG 3624 or MENG 4650
MENG 3070 or MENG 4150

MENG 4260 (3)
Heat and Mass Transfer

ENGR 2450
ENGR 3012
MATH 2154

ENGR 3050 (3)
Sensors, Measurements And Controls

MATH 2154

Tech Elective (3)

PHIL 2274 or 2275 (3)
Ethics

Humanities/ Fine Arts Elective (2)

Social Sciences Elective (3)

ENGR 4020 (2)
Senior Capstone Design II

Tech Elective (3)

Tech Elective (1)

Humanities/ Fine Arts Elective (2)

Social Sciences Elective (3)

Social Sciences Elective (3)

16

15/31

17/48

17/65

17/81

16/98

16/114

14/128

Credit hours per Semester

Cumulative Credit hours

Revision Date: 07/16/2015