B.S. in Mechanical Engineering
Curriculum of Mechanical Engineering (no concentration)
2015-2016 or later

Freshman:
1st semester (16 credits)
- MAE 1001 (F) Mechanical and Aerospace Engineering
- MATH 2184 (F&S) Linear Algebra
- SEAS 1001 (F) Engineering Orientation
- CHEM 1111 (F&S) General Chemistry
- UW 1020 (F&S) University Writing

H/SS 1 (3)

Freshman:
2nd semester (16 credits)
- MATH 1213 (F&S) Single Variable Calculus
- MAE 1004 (F&S) Engineering Drawing and Computer Graphics
- PHYS 1021 (F&S) University Physics I
- MAE 2117 (F&S) Engineering Computations

H/SS 2 (3)

Sophomore:
1st semester (16 credits)
- APSC 2057 (F&S) Analytical Mechanics I
- APSC 2113 (F&S) Engineering Analysis I
- MATH 2233 (F&S) Multivariable Calculus
- PHYS 1022 (F&S) University Physics II

Sophomore:
2nd semester (16 credits)
- APSC 2058 (F&S) Analytical Mechanics II
- MAE 2131 (S) Thermodynamics
- CSCI 1211 (S) Computing
- ECE 2110 (F&S) Circuit Theory

Junior:
1st semester (18 credits)
- MAE 3126 (F) Fluid Mechanics
- MAE 3191 (F) Manufacturing Process and Systems
- MAE 3193 (S) Engineering System Design
- MAE 3166W (S) Materials Engineering

Junior:
2nd semester (16 credits)
- MAE 3187 (S) Heat Transfer
- MAE 3134 (S) Linear System Dynamics
- MAE 3139 (S) Thermo Fluid Sciences

Senior:
1st semester (16 credits)
- MAE 4120 (S) Methods of Engineering Experimentation
- MAE 4151 (F) Engineering Systems Design
- MAE 4152W (S) Mechanical Engineering Laboratory

Senior:
2nd semester (18 credits)
- Technical Elective (3)
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H/SS 5 (3)

Technical Elective: Shall be selected from among the MAE 3000, 4000, or 6000 level courses, except that the following are excluded: MAE 3171, MAE 4172, MAE 6298, MAE 6299, MAE 6999. All technical electives must be approved by the undergraduate advisor. Technical courses from other departments (3000, 4000, or 6000 level) may be permitted, on a case by case basis, if approved by both the undergraduate advisor and department chair.

Color Code:
- Design Courses
- Mechanical, Materials, Processes
- Electrical, Measurements, Controls
- Thermal/Fluid Sciences
- Humanities/Social Sciences, Writing
- Basic Science
- Mathematics

F = fall semester, S = spring semester
Pre = Pre-requisite
Co = Co-requisite
Pre/Co = Pre-requisite or Co-requisite
H/SS = Humanities / Social Sciences
Phil 2135 is required in place of a humanities elective

ASME membership recommended
FE Exam recommended in the senior year

Revised July 2014