Mechanical Engineering Curriculum

Fall 1 (18 credits)
- First Year Experience (4)
- Foreign Language (4)
- MTH 141 (4) Calculus I
- CHE 120 (4) Chemistry I
- EGE 110 (2) Introduction to Engineering Profession

Spring 1 (16 credits)
- Gen Ed Foundations I (4)
- MTH 142 (4) Calculus II
- PHY 101 (4) Physics I
- EGE 120 (4) Introduction to Engineering Analysis & Design

Fall 2 (16 credits)
- Gen Ed Foundations II (4)
- MTH 241 (4) Calculus III
- PHY 102 (4) Physics II
- EGE 210 (4) Statics and Dynamics

Spring 2 (16 credits)
- Gen Ed Foundations III (4)
- MTH 333 (4) Differential Eqn & Linear Algebra
- EGE 220 (4) Thermodynamics & Fluid Mechanics I
- EGE 240 (4) Mechanics of Materials

Fall 3 (18 credits)
- Gen Ed Themes I (4)
- PHY 230 Electronics
- EME 310 (4) Kinematics & Dynamics of Machinery
- MGT 495 (2) Project Management

Spring 3 (14 credits)
- Gen Ed Themes II (4)
- MTH 306 (4) Probability & Statistics for Engineers & Scientists
- EGE 310 (4) Product Design and Development
- EGE 320 (2) Design of Machine Elements

Fall 4 (14 credits)
- Gen Ed Capstone (4)
- EME 410 (4) Control of Dynamic Systems
- EME 420 (4) Mechanical Vibrations
- EME 430 (4) Heat Transfer

Spring 4 (16 credits)
- Technical Elective I (2)
- Technical Elective II (2)
- Free Elective (2) (If needed)
- EME 490 (4) ME Capstone Design II

LEGEND

- General Education (32)
- Mathematics (16/20)
- Basic Sciences (12/16)
- Project Management (2)
- General Engineering (24)
- Mechanical Engineering (30)
- Elective (8)

- Numbers within parentheses indicate credit hours
- Technical electives have pre-requisites which are met by senior level students.