University of Minnesota – Mechanical Engineering Curriculum

**Freshman Year**
- Math 1371/1271 Calculus I 4 cr
- Math 1372/1272 Calculus II 4 cr
- Phys 1301W Physics I 4 cr
- Chem 1061 Chemical Principles I 3 cr
- Writ 1301 Univ Writing 4 cr

**Sophomore Year**
- Math 2374/2263 Multi−Variable Calculus 4 cr
- AEM 2021 Statics & Dynamics 4 cr
- ME 2011 Intro to Mech Eng 4 cr
- Chem 1065 Chem Prin I Lab 1 cr
- Mats 2002 Mat Sci Lab 1 cr

**Junior Year**
- Math 2373/2243 Linear Algebra & Diff Eqs 4 cr
- AEM 3031 Deformable Body Mechanics 3 cr
- CSci 1113 Intro to C/C++ 4 cr
- ME 3331 Thermodynamics 3 cr
- IE 3521 Stats, Quality & Reliability 4 cr

**Senior Year**
- EE 3005 Fundamentals of Elec Eng 4 cr
- EE 3006 Elec Eng Lab 1 cr
- ME 3281 Sys Dynamics & Control 4 cr
- ME 3221 Fundamentals of Design & Manufacturing 4 cr
- ME 3222 Mechanisms & Machine Design 4 cr
- ME 4031W Measurements Laboratory 4 cr

Footnotes:
1. Biology class must be taken A/F. Strongly encourage Biol 1009.
2. All liberal education classes must be selected to satisfy both a core and a theme to enable graduating with the minimum of 4 liberal education classes.
3. Technical elective program requires advisor approval. Check prerequisites.