University of Minnesota – Mechanical Engineering Curriculum

Freshman Year

Math 1371/1271  
Calculus I  
4 cr  

Math 1372/1272  
Calculus II  
4 cr

Phys 1302W  
Physics II  
4 cr

Phys 1301W  
Physics I  
4 cr

Chem 1061  
Chemical Principles I  
3 cr

Chem 1065  
Chem Prin I Lab  
1 cr

Mats 2001  
Materials Sci  
3 cr

Mats 2002  
Mat Sci Lab  
1 cr

Liberal Ed  
Mech Eng  
4 cr

Liberal Ed  
3 cr

Biology  
with Lab  
4 cr

Writ 1301  
Univ Writing  
4 cr

Chem 1065  
Chem Prin I Lab  
1 cr

Mats 2002  
Mat Sci Lab  
1 cr

Liberal Ed  
2 cr

16 cr

Sophomore Year

Math 2374/2263  
Multi–Variable Calculus  
4 cr

Math 2373/2243  
Linear Algebra & Diff Eqns  
4 cr

AEM 2021  
Statics & Dynamics  
4 cr

AEM 3031  
Deformable Body Mechanics  
3 cr

ME 2011  
Intro to Mech Eng  
4 cr

CSci 1113  
Intro to C/C++  
4 cr

Mats 2001  
Materials Sci  
3 cr

Liberal Ed  
2 cr

16 cr

15 cr

16 cr

17 cr

Junior 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 3322  
Mechanisms & Machine Design  
4 cr

ME 3332  
Fluid Mechanics  
3 cr

ME 3333  
Heat Transfer  
3 cr

ME 3331  
Thermo–dynamics  
3 cr

IE 3521  
Stats, Quality & Reliability  
4 cr

ME 4031W  
Measurements Laboratory  
4 cr

ME 4054W  
Design Projects  
4 cr

16 cr

15 cr

15 cr

15 cr

Senior Year

Technical Elective #1  
4 cr

Technical Elective #2  
4 cr

Technical Elective #3  
4 cr

Technical Elective #4  
4 cr

Liberal Ed  
2 cr

Liberal Ed  
2 cr

Liberal Ed  
2 cr

Liberal Ed  
2 cr

16 cr

3 cr

3 cr

3 cr

3 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.

Name:

Total number of credits for graduation: 125