

# Materials Science & Engineering B.S. Major 2024-2025 (Engineering Calculus)

First Year		Second Year		Third Year		Fourth Year	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<p><b>CHEM 1210</b> Chemistry I (4 credits)</p> <p><b>CHEM 1215</b> Chem Lab I (1 credit)</p> <p><b>MATH 1310</b> Eng Calc I (4 credits) <i>QA</i></p> <p><b>WRTG 2010</b> Intro Writing (3 credits) <i>WR2</i></p> <p><b>LEAP 1501</b> Eng LEAP I <i>BF</i> or <b>Gen Ed.</b> (3 credits)</p>	<p><b>CHEM 1220</b> Chemistry II (4 credits)</p> <p><b>CHEM 1225</b> Chem Lab II (1 credit)</p> <p><b>MATH 1320</b> Eng Calc II (4 credits) <i>QB</i></p> <p><b>MSE 1800</b> MSE I (2 credit)</p> <p><b>Gen Ed.</b> (3 credits)</p> <p><b>LEAP 1500</b> Eng LEAP II HF &amp; DV or <b>Gen Ed.</b> (3 credits)</p>	<p><b>MSE 2010</b> Intro MSE (4 credits)</p> <p><b>ME EN 2010</b> Statics (3 credits)</p> <p><b>MATH 2250</b> ODEs/Lin Alg (4 credits)</p> <p><b>PHYS 2210</b> Physics I (4 credits)</p> <p style="text-align: center; font-size: small;">Organic Chemistry can be swapped for Statics. Students must request a permission code from Mechanical Eng. to take ME EN 2020--statics.</p> <p style="text-align: center; font-size: small;">BS/MS Option To start process for BS/MS program see Undergraduate Academic Advisor</p>	<p><b>CHEM 2310</b> Org Chem (4 credits)</p> <p><b>COMP 1010</b> Programming (3 credits)</p> <p><b>MATH 3140</b> PDEs (4 credits)</p> <p><b>PHYS 2220</b> Physics II (4 credits)</p>	<p><b>MSE 3410</b> Intro Polymers (3 credits)</p> <p><b>MSE 3032</b> Thermo (4 credits)</p> <p><b>MSE 3010</b> Mtls Processing (3 credits)</p> <p><b>Foundational Requirement</b> (1.5-3 credits)</p> <p><b>Gen Ed.</b> (3 credits)</p>	<p><b>MSE 5090</b> Communication (3 credit) <i>CW</i></p> <p><b>MSE 3061</b> Transport (3 credits) <i>QI</i></p> <p><b>MSE 3310</b> Intro Ceramics (3 credits)</p> <p><b>MSE 3011</b> Mtls Character (4 credits) <i>QI</i></p> <p><b>Gen Ed.</b> (3 credits)</p> <p style="text-align: center; font-size: small;">BS/MS Option <b>Department BS/MS Application Due April 1st</b></p>	<p><b>MET E 5450</b> Mech Behavior (3 credits) <i>QI</i></p> <p><b>Tech Elective or Internship</b> (3 credits)</p> <p><b>Tech Elective</b> (3 credits)</p> <p><b>MSE 3210</b> EPS (3 credits)</p> <p><b>Gen Ed.</b> (3 credits)</p> <p style="text-align: center; font-size: small;">BS/MS Option Students must pass transfer graduate classes with a B or better. See Graduate Academic Advisor.</p>	<p><b>MSE 5098</b> Senior Design (4 credits)</p> <p><b>MSE 5034</b> Kinetics (3 credit)</p> <p><b>Tech Elective</b> (2-3 credits)</p> <p><b>Tech Elective</b> (3 credits)</p> <p><b>Gen Ed.</b> (3 credits)</p> <p style="text-align: center; font-size: small;">BS/MS Option <b>Grad School Application Due Jan 15</b></p>
15 credits	17 credits	15 credits	15 credits	14.5-16 credits	16 credits	15 credits	16 credits

Pre-Major Status

Major Status



**Department of Materials Science & Engineering**  
College of Engineering | University of Utah  
www.mse.utah.edu

Total Required credits: 123.5 or more  
C grade or better in all major required courses  
Non-emphasis or emphasis track

- Key**
- Prerequisites Enforced →
  - Recommended Co-requisites ⋮
  - Recommended Prerequisite ...→