

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

First Year		Second Year		Third Year		Fourth Year									
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring								
<div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"><b>CHEM 1210</b> Chemistry I (4 credits)</div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"><b>CHEM 1215</b> Chem Lab I (1 credit)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"><b>MATH 1210</b> Calc I (4 credits)QA</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>WRTG 2010</b> Intro Writing (3 credits) WR2</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>LEAP 1501</b> Eng LEAP I BF or <b>Gen Ed.</b> (3 credits)</div>	<div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"><b>CHEM 1220</b> Chemistry II (4 credits)</div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"><b>CHEM 1225</b> Chem Lab II (1 credit)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"><b>MATH 1220</b> Calc II (4 credits) QB</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 1800</b> MSE I (2 credit)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>Gen Ed.</b> (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>LEAP 1500</b> Eng LEAP II HF &amp; DV or <b>Gen Ed.</b> (3 credits)</div>	<div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"><b>CHEM 2310</b> Org Chem (4 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 2010</b> Intro MSE (4 credits)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"><b>MATH 2210</b> Calc III (3 credits)</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 5px;"><b>PHYS 2210</b> Physics I (4 credits)</div> <div style="background-color: #cccccc; padding: 5px; margin-bottom: 5px;">Organic Chemistry can be swapped for Statics. Students must request a permission code from Mechanical Eng. to take ME EN 2020--statics.</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">BS/MS Option To start process for BS/MS program see Undergraduate Academic Advisor.</div>	<div style="border: 1px solid pink; padding: 5px; margin-bottom: 5px;"><b>ME EN 2010</b> Statics (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>COMP 1010</b> Programming (3 credits)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"><b>MATH 2250</b> ODEs/Lin Alg (4 credits)</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 5px;"><b>PHYS 2220</b> Physics II (4 credits)</div> <div style="background-color: #cccccc; padding: 5px; margin-bottom: 5px;">Major Status</div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3410</b> Intro Polymers (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3032</b> Thermo (4 credits)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"><b>MATH 3150</b> PDEs (2 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3010</b> Mtls Processing (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>Gen Ed.</b> (3 credits)</div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 5090</b> Communication (3 credit) CW</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3061</b> Transport (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3310</b> Intro Ceramics (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3011</b> Mtls Character (4 credits) QI</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>Tech Elective</b> MSE Section 1 (2-3 credits)</div> <div style="border: 1px solid pink; padding: 5px; margin-bottom: 5px;"><b>Foundational Requirement</b> (1.5-3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">BS/MS Option <b>Department BS/MS Application Due April 1</b></div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MET E 5450</b> Mech Behavior (3 credits) QI</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>Tech Elective</b> ENG Section 3 or Internship (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 3210</b> EPS (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>Gen Ed.</b> (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>Gen Ed.</b> (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">BS/MS Option Students must pass transfer graduate classes with a B or better. See Graduate Academic Advisor.</div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 5098</b> Senior Design (4 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>MSE 5034</b> Kinetics (3 credit)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>Tech Elective</b> MET E Section 2 (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>Tech Elective</b> MSE Section 1 (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>Gen Ed.</b> (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">BS/MS Option <b>Grad School Application Due Jan 15</b></div>								
15 credits		17 credits		14 credits		15 credits		15 credits		17.5-19 credits		15 credits		16 credits	



**Department of Materials Science & Engineering**  
**College of Engineering | University of Utah**  
[www.mse.utah.edu](http://www.mse.utah.edu)

Total Required credits: 124.5 or more  
 C grade or better in all major required courses  
 Technical Electives: 10 or more credits

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