

# Materials Science & Engineering B.S. Major 2023-2024 (Engineering 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 1310</b> Eng 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 1320</b> Eng 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 2250</b> ODEs/Lin Alg (4 credits)</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 5px;"><b>PHYS 2210</b> Physics I (4 credits)</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 3140</b> PDEs (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="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 red; padding: 5px; margin-bottom: 5px;"><b>MSE 3010</b> Mtls Processing (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 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) QI</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> (3 credits)</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 or Internship</b> (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;"><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> (2-3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"><b>Tech Elective</b> (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"><b>Gen Ed.</b> (3 credits)</div>								
15 credits		17 credits		15 credits		15 credits		14.5-16 credits		16 credits		15 credits		16 credits	

Pre-Major Status

Major Status

BS/MS Option  
To start process for BS/MS program see Undergraduate Academic Advisor

BS/MS Option  
**Department BS/MS Application Due April 1st**

BS/MS Option  
**Grad School Application Due Jan 15th**

BS/MS Option  
For graduate courses taken here see Graduate Academic Advisor



**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  
Technical Electives: 11 or more  
2.3 GPA required

**Key**

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