

# Materials Science & Engineering B.S. Major 2025-2026 (Engineering Calculus)

Pre-Major Status	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> Calc I (4 credits)                 </div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"> <b>WRTG 1010</b>  (3 credits)                 </div> <div style="border: 1px solid purple; padding: 5px;"> <b>Gen Ed. BF</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> Calc II (4 credits)                 </div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"> <b>WRTG 2010</b>  (3 credits)                 </div> <div style="border: 1px solid red; padding: 5px;"> <b>MSE 1800</b> MSE I (2 credit)                 </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 pink; padding: 5px; margin-bottom: 5px;"> <b>ME EN 2010</b> Statics (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 2210</b> Physics I (4 credits)                 </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;">                     Organic Chemistry can be taken before or Statics. Students must request a permission code from Mechanical Eng. to take ME EN 2020--statics.                 </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 pink; 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 purple; padding: 5px; margin-bottom: 5px;"> <b>Gen Ed. AI</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 purple; padding: 5px;"> <b>Gen Ed. PS</b> (3 credits)                 </div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"> <b>MET E 5450</b> Mech Behavior (3 credits)                 </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>Tech Elective</b> (2-3 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;"> <b>Gen Ed.+ B.S. HF + DV</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> (3 credits)                 </div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;"> <b>Gen Ed. LS</b> (3 credits)                 </div> <div style="border: 1px solid purple; padding: 5px;"> <b>Gen Ed.+ B.S. FF + IR</b> (3 credits)                 </div>							
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 Students must pass transfer graduate classes with a B or better.		BS/MS Option Grad School Application Due Jan 15							
15 credits		14 credits		15 credits		15 credits		13 credits		16 credits		14-15 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: 118-120  
 C grade or better in all major required courses  
 Non-emphasis or emphasis track

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