

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
<div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">CHEM 1210 Chemistry I (4 credits)</div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">CHEM 1215 Chem Lab I (1 credit)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;">MATH 1310 Eng Calc I (4 credits) <i>QA</i></div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">WRTG 2010 Intro Writing (3 credits) <i>WR2</i></div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">LEAP 1501 Eng LEAP I <i>BF</i> or Gen Ed. (3 credits)</div>	<div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">CHEM 1220 Chemistry II (4 credits)</div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">CHEM 1225 Chem Lab II (1 credit)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;">MATH 1320 Eng Calc II (4 credits) <i>QB</i></div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 1800 MSE I (2 credit)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">Gen Ed. (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">LEAP 1500 Eng LEAP II <i>HF & DV</i> or Gen Ed. (3 credits)</div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 2010 Intro MSE (4 credits)</div> <div style="border: 1px solid pink; padding: 5px; margin-bottom: 5px;">ME EN 2010 Statics (3 credits)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;">MATH 2250 ODEs/Lin Alg (4 credits)</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 5px;">PHYS 2210 Physics I (4 credits)</div> <div style="border: 1px solid gray; 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 blue; padding: 5px; margin-bottom: 5px;">CHEM 2310 Org Chem (4 credits)</div> <div style="border: 1px solid pink; padding: 5px; margin-bottom: 5px;">COMP 1010 Programming (3 credits)</div> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;">MATH 3140 PDEs (4 credits)</div> <div style="border: 1px solid orange; padding: 5px; margin-bottom: 5px;">PHYS 2220 Physics II (4 credits)</div> <div style="border: 1px solid gray; 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;">MSE 3410 Intro Polymers (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 3032 Thermo (4 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 3010 Mtls Processing (3 credits)</div> <div style="border: 1px solid pink; padding: 5px; margin-bottom: 5px;">Foundational Requirement (1.5-3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">Gen Ed. (3 credits)</div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 5090 Communication (3 credit) <i>CW</i></div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 3061 Transport (3 credits) <i>QI</i></div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 3310 Intro Ceramics (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 3011 Mtls Character (4 credits) <i>QI</i></div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">Gen Ed. (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">BS/MS Option Department BS/MS Application Due April 1st</div>	<div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MET E 5450 Mech Behavior (3 credits) <i>QI</i></div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">Tech Elective or Internship (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">Tech Elective (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 3210 EPS (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">Gen Ed. (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;">MSE 5098 Senior Design (4 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">MSE 5034 Kinetics (3 credit)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">Tech Elective (2-3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">Tech Elective (3 credits)</div> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 5px;">Gen Ed. (3 credits)</div> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;">BS/MS Option Grad School Application Due Jan 15</div>
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 ...→