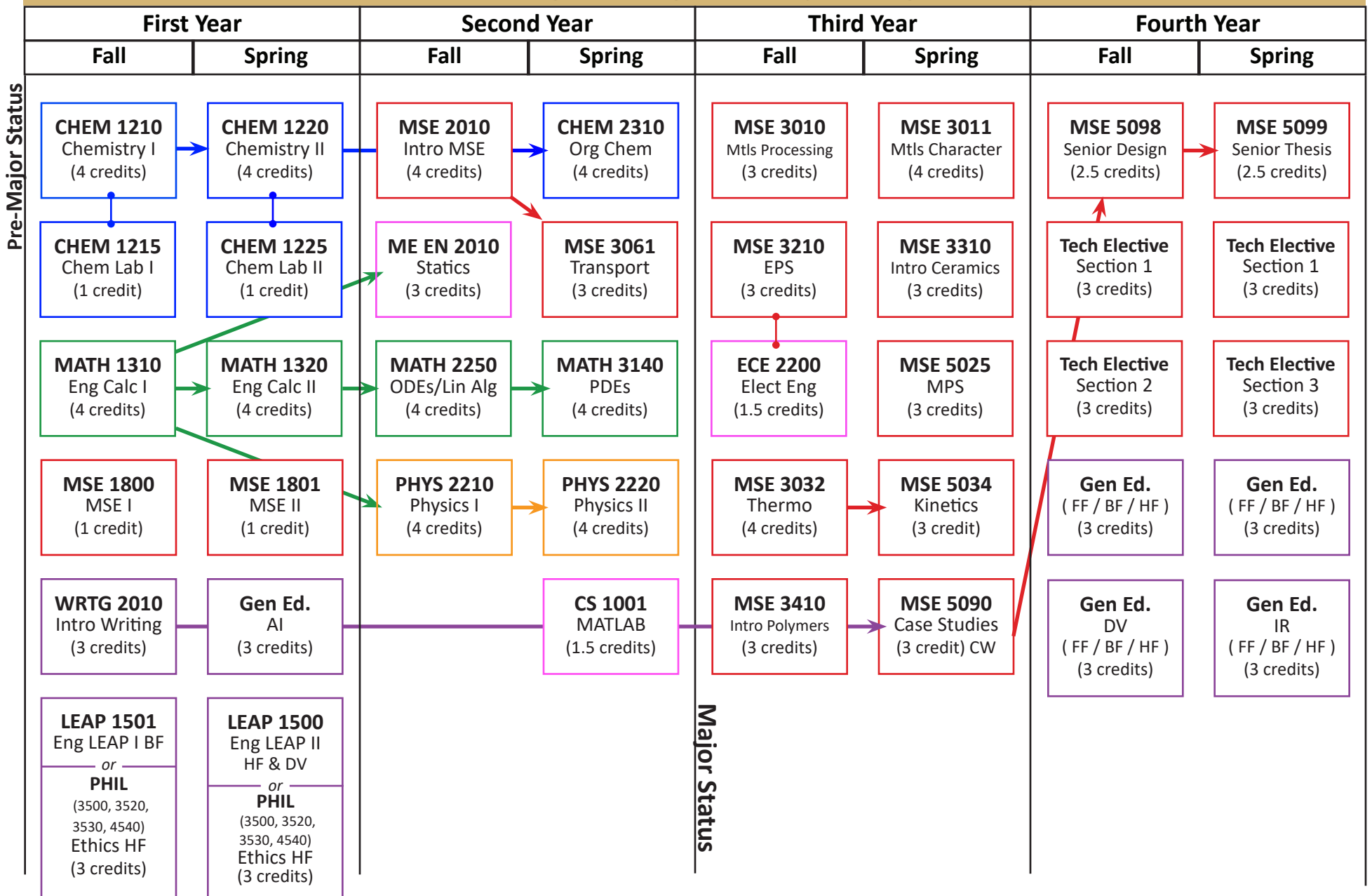


Materials Science & Engineering B.S. Major (Engineering Calculus)



Department of Materials Science & Engineering
College of Engineering | University of Utah
 Academic Advisor: Marcie Leek | marcie.leek@utah.edu
 For further information visit: www.mse.utah.edu

Key

- Prerequisites Enforced →
- Recommended co-requisites ↯

Major Requirements

- No grade below C allowed
- 2.3 GPA is required

Materials Science & Engineering Major Status

Fall	Spring	Fall	Spring				
<p>Pre-req: MSE 2010, MATH 1320, CHEM 2310, PHYS 2220 Co-req: MSE 3061, ME EN 2010</p> <div data-bbox="128 354 537 467" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 3010 Materials Processing (3 credits)</p> </div>	<p>Pre-req: MSE 2010, MSE 3061, MATH 3140, CHEM 2310, PHYS 2220, CS 1001, ME EN 2010</p> <div data-bbox="604 326 1014 435" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 3011 Structural Analysis of Materials (4 credits)</p> </div>	<p>Pre-req: MSE 5090</p> <div data-bbox="1083 305 1493 414" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 5098 Senior Design (2.5 credits)</p> </div> <p>Sequence: MSE 5099</p>	<p>Pre-req: MSE 5098</p> <div data-bbox="1560 305 1969 414" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 5099 Senior Thesis (2.5 credits)</p> </div>				
<p>Pre-req: MSE 2010, MATH 2250, CHEM 1220/1225, PHYS 2220, CS 1001 Co-req: MATH 3140, CHEM 2310, MSE 3061, ME EN 2010, ECE 2200</p> <div data-bbox="128 626 537 732" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 3210 Electronic Properties of Solids (3 credits)</p> </div>	<p>Pre-req: MSE 2010, MATH 1310, CHEM 1210, CHEM 1215</p> <div data-bbox="604 540 1014 646" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 3310 Intro to Ceramics (3 credits)</p> </div>	<div data-bbox="1083 529 1969 1079" style="border: 1px solid black; padding: 10px;"> <p>Technical Electives</p> <p>Students are required to complete four 5000-level or above courses from the approved Technical Elective list, visit mse.utah.edu for more information.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td data-bbox="1104 675 1499 850" style="padding: 10px;"> <p>Materials Science & Engineering Section 1</p> </td> <td data-bbox="1549 675 1944 850" style="padding: 10px;"> <p>Materials Science & Engineering Section 1</p> </td> </tr> <tr> <td data-bbox="1104 883 1499 1058" style="padding: 10px;"> <p>Metallurgical Engineering Section 2</p> </td> <td data-bbox="1549 883 1944 1058" style="padding: 10px;"> <p>Engineering & Science Section 3</p> </td> </tr> </table> </div>		<p>Materials Science & Engineering Section 1</p>	<p>Materials Science & Engineering Section 1</p>	<p>Metallurgical Engineering Section 2</p>	<p>Engineering & Science Section 3</p>
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<p>Metallurgical Engineering Section 2</p>	<p>Engineering & Science Section 3</p>						
<div data-bbox="128 773 537 878" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ECE 2200 Electrical & Computer Eng. (1.5 credits)</p> </div>	<p>Pre-req: MSE 2010, MSE 3061, MATH 3140, CHEM 2310, PHYS 2220, CS 1001, ME EN 2010</p> <div data-bbox="604 756 1014 862" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 5025 Mechanical Properties of Solids (3 credits)</p> </div>						
<p>Pre-req: MSE 2010, MSE 3061, MATH 2250, CHEM 1220/1225, PHYS 2220</p> <div data-bbox="128 984 537 1097" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 3032 Thermodynamics (4 credits)</p> </div> <p>Sequence: MSE 5034</p>	<p>Pre-req: MSE 2010, MSE 3061, MATH 3140, CHEM 2310, PHYS 2220, CS 1001, ME EN 2010, MSE 3032</p> <div data-bbox="604 992 1014 1105" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 5034 Kinetics of Solid-State Processes (3 credits)</p> </div>						
<p>Pre-req: MSE 2010, CHEM 2310, MATH 1320</p> <div data-bbox="128 1227 537 1341" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 3410 Intro to Polymers (3 credits)</p> </div>	<p>Pre-req: WRTG 2010</p> <div data-bbox="604 1195 1014 1308" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>MSE 5090 Case Studies in MSE (3 credits)</p> </div> <p>Sequence: MSE 5098, MSE 5099</p>						

