# Materials Science & Engineering BS/MS Program

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Senior Year</th>
<th>Graduate Year</th>
<th>Program Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>MSE 3010</td>
<td>MSE 3011</td>
<td>MSE 5098</td>
<td>MSE 6970</td>
</tr>
<tr>
<td>Mtls Processing (3 credits)</td>
<td>Mtls Character (4 credits)</td>
<td>Senior Design (2 credits)</td>
<td>Thesis Research (4 credit)</td>
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<tr>
<td>MSE 3210</td>
<td>MSE 3310</td>
<td>Tech Elective</td>
<td>MSE 7800</td>
</tr>
<tr>
<td>EPS (3 credits)</td>
<td>Intro Ceramics (3 credits)</td>
<td>(3 credit)</td>
<td>Grad Seminar I (0.5 credit)</td>
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<tr>
<td>ECE 2200</td>
<td>MSE 5025</td>
<td>Tech Elective</td>
<td>MSE 6001</td>
</tr>
<tr>
<td>Elect Eng (1.5 credits)</td>
<td>MPS (3 credits)</td>
<td>(3 credit)</td>
<td>Eng. Materials (3 credit)</td>
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<tr>
<td>MSE 3032</td>
<td>MSE 6032</td>
<td>MSE 6034</td>
<td>MSE 6___</td>
</tr>
<tr>
<td>Thermo (4 credits)</td>
<td>Adv. Thermo (3 credit)</td>
<td>Kinetics (3 credit)</td>
<td>Grad Elective (3 credit)</td>
</tr>
<tr>
<td>MSE 3410</td>
<td>MSE 6011</td>
<td>MSE 6___</td>
<td>MSE 6___</td>
</tr>
<tr>
<td>Intro Polymers (3 credits)</td>
<td>Adv. Character (3 credit)</td>
<td>Grad Elective (3 credit)</td>
<td>Grad Elective (3 credit)</td>
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### Application Requirements:
- Must have MSE Major status
- 3.5 GPA minimum
- Three Letters of Recommendation
- Personal Statement
- Current DARS

### Deadlines:
- **April 1st** - Spring of junior year apply to the department for admission to the BS/MS program
- **January 15th** - Spring of senior year apply to the Graduate School for graduate student status

### MS Degree Requirements:
- All courses must be passed with a “B-” grade or better
- 3.0 GPA required
- Complete a total of 30 graduate (6000 or above) credit hours

See mes.utah.edu for more information.

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**Key**
- Prerequisites Enforced
- Application Deadlines
- Graduate level course

**Updated:** Fall 2016
Materials Science and Engineering is an integrated discipline of chemistry, physics, and engineering. Many courses and all MSE courses are only offered one semester per year. Students will take a total of 30 credit hours in level 6000 (or above). Required: 3.0 GPA | All courses must be passed with a “B-” grade or better.

**Core Courses**

- **MSE 6032 - Adv Thermodynamics** (3 credit)  
  Grade: __________________ Year: ____________ (Fall semester)
- **MSE 6001 - Engineering Materials** (3 credit)  
  Grade: __________________ Year: ____________ (Fall semester)
- **MSE 6064 - Kinetics** (3 credit)  
  Grade: __________________ Year: ____________ (Spring semester)
- **MSE 6011 - Adv Characterization** (3 credit)  
  Grade: __________________ Year: ____________ (Spring semester)

**Graduate Seminar**

- **MSE 7800 - Graduate Seminar I** (0.5 credit)  
  Grade: __________________ Year: ____________ (Fall semester)
- **MSE 7801 - Graduate Seminar II** (0.5 credit)  
  Grade: __________________ Year: ____________ (Spring semester)

**Thesis Hours**

- **MSE 6970 - Thesis Research: MS** (4 credit)  
  Grade: __________________ Year: ____________ (Fall semester)
- **MSE 6970 - Thesis Research: MS** (4 credit)  
  Grade: __________________ Year: ____________ (Spring semester)

**Electives**

- **MSE 6______ - Grad Elective** (3 credit)  
  Grade: __________________ Year: ____________ (Fall / Spring semester)
- **MSE 6______ - Grad Elective** (3 credit)  
  Grade: __________________ Year: ____________ (Fall / Spring semester)
- **MSE 6______ - Grad Elective** (3 credit)  
  Grade: __________________ Year: ____________ (Fall / Spring semester)

**Thesis**

- **Thesis Title:** _____________________________________________________________
- **Thesis Defense Date:** ___________________________________________________________

Supervisory Committee Chair Approval: ___________________________________________  
Date: ___________________________