### Materials Science & Engineering B.S. Major 2020-2021 (Traditional Calculus)

<table>
<thead>
<tr>
<th>Pre-Major Status</th>
<th>Major Status</th>
<th>Gen Ed.</th>
<th>Total Required credits: 123 or more</th>
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<td>BS/MS Option</td>
<td>Gen Ed.</td>
<td>C grade or better in all major required courses</td>
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<td>Technical Electives: 11 or more</td>
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<td>2.3 GPA required</td>
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#### First Year
- **Fall**
  - CHEM 1210 Chemistry I (4 credits)
  - CHEM 1215 Chem Lab I (1 credit)
  - MATH 1210 Calc I (4 credits)
  - MSE 1800 MSE I - Optional (1 credit)
  - WRTG 2010 Intro Writing (3 credits)
  - LEAP 1501 Eng LEAP I BF or MSE Ethics PHIL 3500, 3520, 3530, or 4540 | HF (3 credits)
  - MSE 2001 Python (1.5 credits)

- **Spring**
  - CHEM 1220 Chemistry II (4 credits)
  - CHEM 1225 Chem Lab II (1 credit)
  - MATH 1220 Calc II (4 credits)
  - MSE 1801 MSE I - Optional (1 credit)
  - MSE 2001 Python (1.5 credits)
  - LEAP 1500 Eng LEAP II HF & DV or MSE Diversity (FF / BF / HF) (3 credits)

- **Credits:** 16 credits

#### Second Year
- **Fall**
  - CHEM 2310 Org Chem (4 credits)
  - ME EN 2010 Statics (3 credits)
  - MATH 2220 Calc III (4 credits)
  - PHYS 2210 Physics I (4 credits)
  - PHYS 2210 Physics I (4 credits)
  - Gen Ed. (3 credits)

- **Spring**
  - CHEM 2310 Org Chem (4 credits)
  - ME EN 2010 Statics (3 credits)
  - MATH 2220 Calc III (4 credits)
  - PHYS 2210 Physics I (4 credits)
  - PHYS 2210 Physics I (4 credits)
  - Gen Ed. (3 credits)

- **Credits:** 14 credits

#### Third Year
- **Fall**
  - MSE 3061 Transport (3 credits)
  - MSE 3032 Thermo (4 credits)
  - MATH 3210 EPS (3 credits)
  - MSE 3210 EPS (3 credits)
  - Gen Ed. (3 credits)

- **Spring**
  - MSE 3061 Transport (3 credits)
  - MSE 3032 Thermo (4 credits)
  - MATH 3210 EPS (3 credits)
  - MSE 3210 EPS (3 credits)
  - Gen Ed. (3 credits)

- **Credits:** 18 credits

#### Fourth Year
- **Fall**
  - MSE 3410 Intro Polymers (3 credits)
  - MSE 3031 Mtls Processing (3 credits)
  - MSE 3210 EPS (3 credits)
  - MET E 5450 Mech Behavior (3 credits)
  - Grad School Application Due Jan 15th

- **Spring**
  - MSE 3410 Intro Polymers (3 credits)
  - MSE 3031 Mtls Processing (3 credits)
  - MSE 3210 EPS (3 credits)
  - MET E 5450 Mech Behavior (3 credits)
  - Grad School Application Due Jan 15th

- **Credits:** 16.5 credits

#### Major Status
- **Fall**
  - MSE 3001 Mtls Character (4 credits)
  - MSE 3310 Intro Ceramics (3 credits)

- **Spring**
  - MSE 3001 Mtls Character (4 credits)
  - MSE 3310 Intro Ceramics (3 credits)

- **Credits:** 16 credits

#### Key
- Prerequisites Enforced
- Recommended Co-requisites

#### Updated: Fall 2020