## Materials Science & Engineering B.S. Major 2024-2025 (Engineering Calculus)

### First Year
- **Fall**
  - CHEM 1210 Chemistry I (4 credits)
  - CHEM 1215 Chem Lab I (1 credit)
  - MATH 1310 Eng Calc I (4 credits) QA
  - WRTG 2010 Intro Writing (3 credits) WR2
  - LEAP 1501 Eng LEAP I BF or Gen Ed. (3 credits)
- **Spring**
  - CHEM 1220 Chemistry II (4 credits)
  - CHEM 1225 Chem Lab II (1 credit)
  - MATH 1320 Eng Calc II (4 credits) QB
  - MSE 1800 MSE I (2 credit )
  - LEAP 1500 Eng LEAP II HF & DV or Gen Ed. (3 credits)

### Second Year
- **Fall**
  - ME EN 2010 Statics (3 credits)
  - COMP 1010 Programming (3 credits)
  - PHYS 2210 Physics I (4 credits)
  - Gen Ed. (3 credits)
  - BS/MS Option
  - To start process for BS/MS program see Undergraduate Academic Advisor
- **Spring**
  - MSE 2010 Intro MSE (4 credits)
  - CHEM 2310 Org Chem (4 credits)
  - PHYS 2220 Physics II (4 credits)
  - Gen Ed. (3 credits)
  - BS/MS Option
  - Department BS/MS Application Due April 1st

### Third Year
- **Fall**
  - MSE 3010 Mtls Processing (3 credits)
  - MSE 3011 Mtls Character (4 credits) QI
  - Foundational Requirement (1.5-3 credits)
- **Spring**
  - MSE 3022 Thermo (4 credits)
  - MSE 3061 Transport (3 credits) QI
  - MSE 3310 Intro Ceramics (3 credits)
  - Gen Ed. (3 credits)
  - BS/MS Option
  - Students must pass transfer graduate classes with a B or better. See Graduate Academic Advisor.

### Fourth Year
- **Fall**
  - MSE 3410 Intro Polymers (3 credits)
  - MSE 3090 Communication (3 credit) CW
  - MSE 5098 Senior Design (4 credits)
- **Spring**
  - ME EN 2010 Statics (3 credits)
  - MSE 3210 EPS (3 credits)
  - Tech Elective (2-3 credits)
  - Gen Ed. (3 credits)
  - BS/MS Option
  - Grad School Application Due Jan 15

### 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

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**Pre-Major Status**

- **Fall**
  - CHEM 1210 Chemistry I (4 credits)
  - CHEM 1215 Chem Lab I (1 credit)
  - MATH 1310 Eng Calc I (4 credits) QA
  - WRTG 2010 Intro Writing (3 credits) WR2
  - LEAP 1501 Eng LEAP I BF or Gen Ed. (3 credits)
- **Spring**
  - CHEM 1220 Chemistry II (4 credits)
  - CHEM 1225 Chem Lab II (1 credit)
  - MATH 1320 Eng Calc II (4 credits) QB
  - MSE 1800 MSE I (2 credit )
  - LEAP 1500 Eng LEAP II HF & DV or Gen Ed. (3 credits)

**Major Status**

- **Fall**
  - CHEM 2310 Org Chem (4 credits)
  - PHYS 2210 Physics I (4 credits)
  - Gen Ed. (3 credits)
- **Spring**
  - CHEM 2310 Org Chem (4 credits)
  - PHYS 2220 Physics II (4 credits)
  - Gen Ed. (3 credits)

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**Department of Materials Science & Engineering**

**College of Engineering | University of Utah**

www.mse.utah.edu

**BS/MS Option**

- Students must pass transfer graduate classes with a B or better. See Graduate Academic Advisor.

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**Key**

- Prerequisites Enforced
- Recommended Co-requisites
- Recommended Prerequisite

**Updated:** Spring 24