Materials Science & Engineering B.S. Major 2019-2020 (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)
  - WRTG 2010: Intro Writing (3 credits)
  - LEAP 1501: Eng LEAP I BF
  - MSE 1800: MSE I - Optional (1 credit)

- **Spring**
  - CHEM 1220: Chemistry II (4 credits)
  - CHEM 1225: Chem Lab II (1 credit)
  - MATH 1320: Eng Calc II (4 credits)
  - MSE 1801: MSE I - Optional (1 credit)
  - Gen Ed. AI (3 credits)

### Second Year
- **Fall**
  - ME EN 2010: Statics (3 credits)
  - PHYS 2210: Physics I (4 credits)
  - PHYS 2220: Physics II (4 credits)
  - MSE 2001: Python (1.5 credits)
  - LEAP 1500: Eng LEAP II HF & DV

- **Spring**
  - MSE 2010: Intro MSE (4 credits)
  - MSE 2061: Transport (3 credits)
  - MSE 3010: Mtls Processing (3 credits)
  - MSE 3210: EPS (3 credits)
  - ECE 2200: Elect Eng (1.5 credits)

### Third Year
- **Fall**
  - CHEM 2310: Org Chem (4 credits)
  - MATH 3140: PDEs (4 credits)
  - MSE 3011: Mtls Character (4 credits)
  - MSE 3210: Mtls Processing (3 credits)
  - Gen Ed. DV (3 credits)

- **Spring**
  - MSE 3032: Thermo (4 credits)
  - MSE 3034: Kinetics (3 credits)
  - MSE 3310: Intro Ceramics (3 credits)
  - MSE 3410: Intro Polymers (3 credits)
  - Gen Ed. IR (3 credits)

### Fourth Year
- **Fall**
  - CHEM 2310: Org Chem (4 credits)
  - PHYS 2220: Physics II (4 credits)
  - PHYS 3310: MET E Section 2 (3 credits)
  - Gen Ed. (FF / BF / HF) (3 credits)

- **Spring**
  - MSE 3090: Case Studies (3 credit) CW
  - MSE 5098: Senior Design (2.5 credits)
  - MSE 5099: Senior Thesis (2.5 credits)
  - Gen Ed. DV (FF / BF / HF) (3 credits)

### Major Requirements
- C grade or better in all major required courses
- 2.3 GPA required

### Key
- Prerequisites Enforced
- Recommended co-requisites

---

**Updated: May 2019**

Department of Materials Science & Engineering
College of Engineering | University of Utah
For further information visit: www.mse.utah.edu