# FALL 2018 - FALL 2019 Curriculum

## FRESHMAN YEAR

- **4 CH 1010 General Chemistry**
- **3 ENGL 1030 Accelerated Composition**
- **2 ENGR 1020 Engineering Discipline and Skills**
- **4 MATH 1060 Calculus of One Variable I**
- **3 Gen Ed**

Total Semester Hours: 16

## SOPHOMORE YEAR

- **3 CH 2230 Organic Chemistry**
- **1 CH 2270 Organic Chemistry Lab.**
- **3 MSE 2100 Introduction to Materials Science**
- **4 MATH 2060 Calculus of Several Variables**
- **3 Gen Ed**

Total Semester Hours: 17

## JUNIOR YEAR

- **3 STAT 4110 Stat. Methods for Process Development & Control**
- **2 MSE 3010 Materials Synthesis & Fabrication Laboratory**
- **3 MSE 3260 Thermodynamics of Materials**
- **3 MSE 4150 Intro. to Polymer Sci. and Engr.**
- **1 MSE 4450 Practice of Materials Engineering**
- **1 MSE 4810 Undergraduate Research Fundamentals**
- **3 Gen Ed**

Total Semester Hours: 16

## SENIOR YEAR

- **3 COMM 2500 Public Speaking**
- **2 ECE 2070 Basic Electrical Engineering OR**
  - **2 MSE 4910 Materials Characterization Laboratory**
- **6 Technical Requirement**

Total Semester Hours: 13

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1. ENGR 1070+1080 +1090 may be substituted for ENGR 1410, and ENGR 1050 + 1060 may be substituted for ENGR 1020.
2. See policy on General Education coursework for Clemson University students. There are Six Gen Ed requirements for students pursuing the MSE major, but all 6 requirements could be met in 4 courses if planned appropriately. Please see advisor.
3. See Advisor, Acalog or Degreeworks for full current list of Junior/Senior level technical electives for MSE majors.