### FRESHMAN YEAR

- **4** CH 1010 General Chemistry  
- **3** ENGL 1030 Accelerated Composition  
- **2** ENGR 1020 Engineering Discipline and Skills<sup>1</sup>  
- **4** MATH 1060 Calculus of One Variable I  
- **3** Gen Ed<sup>2</sup>  
- 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<sup>2</sup>  
- 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<sup>2</sup>  
- Total Semester Hours: **16**

### SENIOR YEAR

- **3** COMM 2500 Public Speaking  
- **2** ECE 2070 Basic Electrical Engineering OR  
  - **2** ENGR 2080 Engr. Graphics & Machine Design  
- **2** MSE 4910 Undergraduate Research  
- **6** Technical Requirement<sup>3</sup>  
- **13**

**127 Total Semester Hours**

<sup>1</sup> ENGR 1070+1080 +1090 may be substituted for ENGR 1410, and ENGR 1050 + 1060 may be substituted for ENGR 1020.

<sup>2</sup> 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.

<sup>3</sup> See Advisor, Acalog or Degreeworks for full current list of Junior/Senior level technical electives for MSE majors.