

## MSE Minor

The purpose of the MSE minor is to provide students a foundation for understanding how the processing, properties and structure of materials affects the science, design, and application of materials in the engineering discipline of their major field of study.

### Requirements:

A minimum of five MSE courses constitutes an MSE minor.

1. You must have a minor advisor in MSE who can help you select the best courses and sequencing.
2. You must take both of these courses:
  - MSE 2090 - Introduction to the Science and Engineering of Materials Credits: 3
  - MSE 3050 - Thermodynamics and Kinetics of Materials Credits: 3
3. You must take at least one of the following two courses:
  - MSE 3060- Structures and Defects of Materials Credits: 3
  - MSE 3670- Materials for Electronic, Magnetic, and Optical Applications Credits:3
4. You must select at least two courses from the following list to complete a five course minor:
  - MSE 3610 (S)\*\* Aerospace Materials  
\*\*cross listed as MAE 3610
  - CH E 4449 - Polymer Chemistry and Engineering Credits: 3
  - MSE 3080 - Corrosion, Batteries and Fuel Cells Credits: 3
  - MSE 3101 - Materials Science Investigations Credits: 3
  - MSE 4320 - Origins of Mechanical Behavior Credits: 3
  - MSE 4055 - Nanoscale Science and Technology Credits: 3
  - MSE 4592 - Special Topics in Materials Science Credits: 3

### Research:

MSE is a research-intensive discipline. Undergraduate students are encouraged to become involved in research through i) an independent study research project, MSE 4960, ii) senior thesis projects, iii) and financially supported undergraduate research internships during the academic year or summer. MSE faculty members serve as advisors to your to research projects. For more information, consult the MSE department website, [www.virginia.edu/ms](http://www.virginia.edu/ms).

