Requirements for a Minor in Materials Science and Engineering

1. A minor in Materials Science and Engineering can be earned through completion of 20 credits selected from the list below including the required core comprising of ENG ME 306 and ENG ME 465.

**REQUIRED**
ENG ME 306 Materials Science  
Any 500-level ENG MS course

**ELECTIVES**
ENG ME 305 Mechanics of Materials  
ENG EC 471 Physics of Semiconductor Devices  
EMG MS/ME 505 Thermodynamics and Statistical Mechanics of Materials  
ENG MS/ME 503 Kinetic Processes in Materials  
ENG MS/EC 577 Electrical, Optical and Magnetic Properties of Materials  
ENG MS/ME 504 Polymers and Soft Materials  
ENG MS/ME 582 Mechanical Behavior of Materials  
ENG MS/ME/ CAS PY/CH 508 Computational Methods in Materials Science  
ENG MS/BE/ME 523 Mechanics of Biomaterials  
ENG MS/ME 545 Electrochemistry of Fuel Cells and Batteries  
ENG MS/ME 530 Introduction to Micro and Nanomechanics of Solids  
ENG MS/ME 555 MEMS Fabrication and Materials  
ENG MS/ME 534 Materials Technology for Microelectronics  
CAS PY 451 Quantum Physics  
CAS PY 543 Introduction to Solid State Physics

**Note: Students cannot earn credit for both:**
ENG MS/ME 505 Thermodynamics and Statistical Mechanics **AND**  
CAS PY 410 Statistical Thermodynamics

2. No more than 8 credits may be used to satisfy the student’s major degree credit requirements.

3. Students are expected to obtain the necessary background (prerequisites or equivalents) to complete their chosen minor program.

4. Students must have a declared major on record in order to apply for the Minor in Materials Science Engineering.

5. The grade point average (GPA) of the courses (20 credits) used for the minor must be 2.0 or greater for the minor to be awarded.

6. Applications for the Minor in Materials Science and Engineering must be approved by the Minor Coordinator of the Division of Materials Science and Engineering.

7. Students planning to pursue a minor in Materials Science and Engineering should apply as early as possible to facilitate course planning, and in no case later than October 1 of the senior year.

For questions about the requirements for this minor, please contact:  
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