

### Requirements for a Minor in Materials Science & Engineering

- A Minor in Materials Science & Engineering is earned through completion of 20 credits. Twelve credits must be unique to the minor and may not count toward the fulfillment of majors or additional minors. No more than 8 credits can be used to satisfy the student's major degree program requirements.
  - Students must take either ENG ME 306 or ENG BE 425 (4 credits); (cannot both be taken for credit).
  - The remaining 16 credits are to be selected from the elective courses listed below.
- Students are expected to obtain the necessary background (pre-requisites or equivalents) to complete their chosen minor program.
- A minimum 2.00 GPA is required in the courses used to satisfy the minor, with no grade less than a C–.
- Students must have a declared major on record in order to apply for the Minor in Biomedical Engineering.
- Applications for a Minor in Materials Science & Engineering must be approved by the Minor Coordinator of the Division of Materials Science & Engineering.
- Students planning to pursue a minor in Materials Science & Engineering should apply as early as possible—or by May 1 of the junior year—to facilitate course planning.

#### Elective Courses

- [ENG EC 471](#): Physics of Semiconductor Devices
- [ENG ME 305](#): Mechanics of Materials
- [ENG MS 503](#) / [ME 503](#): Kinetic Processes in Materials
- [ENG MS 504](#) / [ME 504](#) / [BE 504](#): Polymers & Soft Materials
- [ENG MS 505](#) / [ME 505](#): Thermodynamics & Statistical Mechanics of Materials
- [ENG MS 508](#): Computational Methods in Materials Science
- [ENG MS 527](#) / [ME 527](#): Transport Phenomena in Materials Processing
- [ENG MS 545](#) / [ME 545](#): Electrochemistry of Fuel Cells & Batteries
- [ENG MS 555](#) / [ME 555](#): MEMS Fabrication & Materials
- [ENG MS 577](#) / [EC 577](#): Electrical, Optical, & Magnetic Properties of Materials
- [ENG MS 582](#) / [ME 582](#): Mechanical Behavior of Materials
- [CAS PY 451](#): Quantum Physics
- [CAS PY 543](#): Introduction to Solid State Physics

- *Please note:* ME/MS 505 and PY 410 are both courses in statistical mechanics and can not both be taken for credit.

Please reference the [list of duplicate classes](#) when planning your minor.

- For questions regarding minor requirements, please contact:  
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