The Department of Materials Science and Engineering offers the Master of Science, Master of Engineering, and Doctor of Philosophy degrees in Materials Science & Engineering (MSE) and Nuclear Engineering (NE). Requirements for these degrees are described in the General Information section of this catalog.

Degrees in MSE include specific areas of research and study in biomaterials, ceramics, composites, computational materials science, electronic materials, metals, polymers, nanomaterials, and nuclear materials. Degrees in NE include specific areas of research and study in advanced nuclear power concepts and systems, digital control of nuclear reactor power plant technology and operations, reactor dynamics and control, advanced radiation detectors and analysis in support of nuclear forensics and homeland security.

Nontraditional Degree Programs: The Department offers combined bachelor/master's degree programs: MSE BS/MS, NE BS/MS, and students may also combine the MSE BS with the MS awarded through the Dept. of Biomedical Engineering (BME). The combined bachelor/master's program allows qualified students to earn both degrees in materials science and engineering with savings of a tangible number of credit hours. Qualified students are allowed to begin master's course work in their junior years and double count specific graduate courses for both degrees. The master's degree may be completed within 2 to 3 semesters after completing the bachelor's degree. Program admission requirements are:

1. satisfaction of Graduate School admission requirements prior to the beginning of the senior year,
2. an upper division GPA of at least 3.5 in MSE and 3.4 in NE,
3. for MSE, completion of a minimum of 18 credit hours of courses,
4. admission by the Department's Graduate Admission Committee and approval by the College of Engineering and the Graduate School.

For more information, contact the Department.

The J.D./M.S. in MSE (thesis/non-thesis) is a joint degree program culminating in both the Juris Doctor degree, awarded by the College of Law, and the Master of Science (thesis/non-thesis), awarded by the College of Engineering. Under this program, a student can earn both degrees in approximately 1 year less than it would take to attain both degrees if pursued consecutively.

The concurrent M.D./Ph.D. degree in MSE is a joint degree program offered through a collaborative program between the College of Medicine and Materials Science and Engineering. For more information, please contact the Department.

To be eligible for regular admission to the graduate program within the Department, the student must hold a B.S. in an appropriate major. Because of the breadth of MSE graduate programs, students with degrees in materials, ceramics, metallurgy, other engineering, mathematics, or science areas (such as biology, chemistry, or physics) have found ample opportunities to pursue their research and training areas of interest.

### Majors
- Materials Science and Engineering (http://catalog.ufl.edu/graduate/colleges-departments/engineering/materials-science/materials-science/)
- Nuclear Engineering Sciences (http://catalog.ufl.edu/graduate/colleges-departments/engineering/materials-science/nuclear-sciences/)

### Faculty

#### Professor
- Abernathy, Cammy
- Batich, Christopher D.
- Brennan, Anthony B.
- Gower, Laurie B.
- Hennig, Richard
- Hummel, Rolf E.
- Mecholsky, John J.
- Myers, Michele V.
- Nino, Juan C.
- Norton, David P.
- Sigmund, Wolfgang Michael
- Singh, Rajiv K.
- Wall, Nathalie A.
- Xue, Jiangeng

#### Associate Professor
- Allen, Josephine
- Andrew, Jennifer
- Fuchs, Gerhard E.
- McDevitt, Christopher
- Shen, Chiayi
- Tonks, Michael
- Watson, Justin C.

#### Assistant Professor
- Aitkaliyeva, Assel
- Butala, Megan Marie
- Gorman, Megan Marie
- Hartig, Kyle Cameron
- Kim, Honggyu
- Krause, Amanda Rochelle
- Miller, Victoria Mayne
- Moore, Erika Michelle
- Need, Ryan F.
- Webb, Antonio R.

#### Other
- Basim, Gul Bahar
- DeHart, Mark
- Li, Meimei
Materials Science and Engineering Department

- Mack, Joseph M.
- Van Rooyen, Isabella

**Distinguished Professor**
- Jones, Kevin S.
- Moudgil, Brij Mohan
- Pearton, Stephen J.
- Phillpot, Simon R.

**Research Professor**
- Glicksman, Martin E.

**Associate Engineer**
- Gila, Brent P.
- Rudawski, Nicholas G.
- Schubring, DuWayne

**Courtesy Professor**
- Traversa, Enrico

**Engineer**
- Dempere, Luisa Amelia

**Affiliated Faculty**
- Angelini, Thomas Ettor
  Associate Professor
- Baciak, James Edward
  Associate Professor
- Colina, Coray Mariu
  Professor
- Dobson, Jon P.
  Professor
- Eason, Paul Duane
  Assistant Professor
- Enqvist, Per Andreas Jon
  Assistant Professor
- Greenslet, Hitomi
  Associate Professor
- Hahn, David Worthington
  Professor
- Huang, Yong
  Professor
- Law, Mark E.
  Distinguished Professor
- Otto, Kevin
  Professor
- Sawyer, Wallace Gregory
  Professor
- Schmidt, Christine E.
  Professor
- Spearot, Douglas
  Associate Professor
- Subhash, Ghatu
  Professor
- Vermerris, Willem
- Yang, Yong
  Associate Professor