Every day we come into contact with hundreds of manufactured objects that are essential to modern life: vehicles, clothes, machines in our homes and offices, sport and leisure equipment, computers and phones, and medical technology. Everything we see and use is made from materials derived from the earth: metals, polymers, ceramics, semiconductors and composites. Materials Science and Engineering majors study structure, properties and behavior of all materials, develop processes to manufacture useful products from them, and research environmentally friendly materials.

Materials are evolving faster today than any time in history, enabling scientists and engineers to improve the performance of existing products and to develop innovative technologies that will enhance every aspect of our lives. Materials Science and Engineering has become a key discipline in the competitive global economy and is recognized as one of the technical disciplines with the most exciting career opportunities.

**Majors**

Comprehensive majors (no minor required)

- **Materials Science** - Applied Materials
- **Materials Science** - Nanoscience
- **Materials Science** - Physics of Materials
- **Materials Science** - Liberal Arts
- **Materials Science** - Mathematics of Materials
- **Materials Science** - Chemistry of Materials
- **Materials Science** - Geomaterials

**Where you'll find our grads**

- Graduate student Washington State University, Pullman, WA
- Lab Analyst, 3M, Card Materials Business, Maplewood, MN
- Materials Scientist, Fiberstar Bio, Eau Claire, WI
- GMP Scientist, Pharmaceutical Product Development, Inc., Madison, WI

**Prepared for Success**

Typical positions held by materials science graduates include materials science engineer, technical journalism, forensic science, technical sales and marketing, research and development, design and manufacture, quality assurance, production management; continued education at the graduate level.

**Why UW-Eau Claire**

**Faculty Experts**

Our outstanding faculty are proud of the individual attention they give their students. You'll learn in small class settings and get lots of one-on-one attention from professors who inspire learning and truly want you to succeed. Faculty draw from several areas of expertise, including, chemistry, physics, materials science, and have experience in polymer engineering, metallurgy, industry and working with super conductors.

**Research Opportunities**

Students have summer and academic year research opportunities at UW-Eau Claire and other locations across the United States.

**Innovative Facilities**

Students have the opportunity to use excellent on-campus state-of-the-art materials science facilities including instrumentation housed in the Materials Science Center. Instrumentation includes: a scanning Auger nanoprobe, a transmission electron microscope, a scanning electron microscope, an x-ray photoelectron spectrometer, a scanning tunneling electron microscope, atomic force microscopes, a high resolution inductively coupled plasma mass spectrometer, x-ray
Materials Science (continued)
diffractometer, x-ray fluorescence
spectrometer and a molecular beam
epitaxial growth chamber to name a
few!

Suggested
Freshman
Curriculum

• Intro to Nanoscience and Materials
  Science
• Precalculus and Calculus I
• Chemical Principles of General
  Chemistry I and II
• University Physics 1
• Social Science/Humanities Elective
• University writing requirement — depending on placement exam
• Wellness or Physical Activity