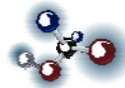


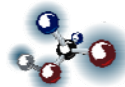
The Advanced Materials Science and Engineering Center (AMSEC) is a new program providing world-class, hands-on education to prepare students for successful careers in industry or graduate study. AMSEC brings together faculty and students from many different departments in a unique interdisciplinary setting. The Center provides a range of activities, including a new minor degree in materials science and engineering, opportunities for students to participate in cutting-edge research with a faculty mentor or industry partner, an active seminar program bringing nationally recognized experts to Western, and strong connections to regional technology companies.

## What is Materials Science?



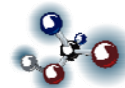
Materials science addresses the challenges of creating and using new materials to meet technological challenges for the 21<sup>st</sup> century. Advanced materials play a critical role in the modern economy where they are used in a wide range of applications, from high technology to everyday products. They include metals and alloys, ceramics, semiconductors, polymers and composites. Materials science is the study of these materials, their properties and uses.

## What do Materials Scientists do?



Professionals trained in materials science are sought after by Northwest companies ranging from aerospace to biotechnology, microelectronics, nanotechnology, clean energy, defense, and transportation. The materials science and engineering program at WWU teaches students a balanced understanding of fundamental concepts and principles with practical applications and useful skills.

## How can I study Materials Science at Western?



Starting fall 2008, students can enroll in a new Materials Science *minor degree program*. This new minor is designed to prepare highly trained professionals ready for graduate study or employment in industry. It is intended to complement a traditional science or engineering technology major by teaching fundamental principles of how materials are made, how they behave, how their properties are measured and quantified, and how they are used in practical applications. Courses will be taught by faculty from several departments, providing a broad, interdisciplinary perspective. The minor includes a capstone experience involving intensive research under the guidance of an AMSEC faculty mentor or an internship with a partner company.

MSCI 101	The materials revolution (4)
MSCI 201*	Introduction to engineering materials (4)
MSCI 320*	Introduction to materials science 1 (4)
MSCI 330*	Introduction to materials science 2 (4)
MSCI 410*	Characterization of materials (4)
MSCI 491&492*	Independent research or internship (6)

\*Courses required for the minor. Other prerequisites and electives are also required. See catalog for complete description.

