

MATERIALS SCIENCE (MSCI)

QUICK FACTS: MSCI COURSES

- **Instructional School:** Science, Technology, and Math
- **Department:** Physical Sciences

MSCI 101 Introduction to Materials Science

(3 Credits, Varies)

Discover the world of materials, the stuff everything is made of. From metals and plastics to ceramics and composites, learn how their properties, processing, and availability have shaped technology, everyday life, and even human history. Through real-world examples and hands-on activities, you'll explore how materials are chosen for products and why those choices matter in science, engineering, and society. (3 lecture hours, 0 lab hours, 3 credits)

MSCI 201 Fundamentals of Materials Science

(3 Credits, Varies)

Fundamentals of Materials Science introduces the structural features of metals, ceramics, polymers, and composites, emphasizing how atomic bonding, processing, structure, and defects combine to determine material properties. Students will be trained in the tools and language used to describe these relationships both qualitatively and quantitatively. This course is designed for students preparing for majors in materials science, engineering, technology, or any fields where understanding materials is essential. PREREQ: CHEM 111 and MATH 170. (3 lecture hours, 0 lab hours, 3 credits)

Refer to [How to Read Course Descriptions](#) for an explanation of elements found in the course descriptions above.