

Material Engineering Minor

Students completing this 15-hour minor will have an understanding structure-property relationships of different types of materials and be able to apply this understanding to the processing and selection of materials for engineering applications. The minor includes courses that focus on each of the major classes of materials (metals, polymer and ceramics) and includes an elective to allow students to pursue their particular areas of interest. The minor will provide students in other disciplines with a better understanding of materials related to their particular interests.

Code	Title	Hours
Required Courses		
MATL 2100	Introduction to Materials Science	3
MATL 3100	Engineering Materials - Metals	3
MATL 3200	Engineering Materials Polymers	3
MATL 3300	Engineering Materials - Ceramics	3
Elective Courses (at least 3 credit hours from the following)		
MATL 2210	Materials for Sustainable Energy Production and Storage	1
MATL 2220	Materials and the Environment	1
MATL 2230	Mineral Resources: Processing and Availability	1
MATL 3101	Metallography Laboratory	1
MATL 3201	Polymer and Composites Laboratory	1
MATL 4500	Materials Properties and Selection	4
MATL 5600	Corrosion ¹	3
MATL 5700	Biomaterials ¹	3
MATL 5750	Microstructure and Mechanics of Skeletal Tissues ¹	3

¹ These courses aren't offered every year.