

# MATERIALS ENGINEERING, MINOR

---

The Materials minor is directed toward students who want to strengthen their background in materials engineering.

## Requirements

The 18-credit minor requires the following:

Code	Title	Credits
<b>Required</b>		
MATLENG 402	Physical Metallurgy	3
<b>Electives</b>		
Select 5 electives (see below)		15
<b>Total Credits</b>		<b>18</b>

## Electives

Code	Title	Credits
MATLENG 316	Thermodynamics of Materials	3
MATLENG 330	Materials and Processes in Manufacturing	3
MATLENG 380	Engineering Basis for Materials Selection	3
MATLENG 385	Introduction to Biomaterials	3
MATLENG 410	Mechanical Behavior of Materials	3
MATLENG 411	Materials Laboratory	3
MATLENG 431	Welding Engineering	3
MATLENG 452	Ceramic Materials	3
MATLENG 453	Polymeric Materials	3
MATLENG 456	Metal Casting Engineering	3
MATLENG 457	Engineering Composites	3
MATLENG 460	Nanomaterials and Nanomanufacturing	3
MATLENG 461	Environmental Degradation of Materials	3
MATLENG 465	Friction and Wear	3
MATLENG 471	Heat Treatment of Materials	3
MATLENG 481	Electronic Materials	3
MATLENG 483	Materials for Energy Systems	3
MATLENG 511	Advanced Materials Characterization	3
MATLENG 585	Advanced Biomaterials	3
MATLENG 690	Topics in Materials:	3

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667.