

MATERIALS SCIENCE AND ENGINEERING MINOR

A minor in the Department of Materials Science and Engineering allows interested students to explore the role of materials in modern technology and to gain understanding of the fundamental processes that govern materials behavior. The courses listed in the following table fulfill the requirements.

COURSES FULFILLING THE MINOR IN MATERIALS SCIENCE AND ENGINEERING

<i>Core Choose one of the following:</i>		Units
ENGR 50	Introductory Science of Materials	4
ENGR 50M	Introductory Science of Materials – Biomaterials Emphasis	4
	<i>Core total</i>	4

Materials Science and Engineering Minor, continued		
<i>Electives:</i>		
Any 6 courses taken from the list below		24
	<i>Program total</i>	28
<i>Approved elective courses:</i>		
MATSCI 151	Microstructure and Mechanical Properties	4
MATSCI 152	Electronic Materials Engineering	4
MATSCI 153	Nanostructure and Characterization	4
MATSCI 154	Solid State Thermodynamics	4
MATSCI 155	Nanomaterials Synthesis	4
MATSCI 160	Nanomaterials Laboratory	4
MATSCI 161	Nanocharacterization Laboratory	4
MATSCI 162	X-Ray Diffraction Laboratory	4
MATSCI 163	Mechanical Behavior Laboratory	4
MATSCI 164	Electronic and Photonic Materials and Devices Laboratory	4
MATSCI 190	Organic Materials	4
MATSCI 192	Solid State Thermodynamics	4
MATSCI 193	Atomic Arrangements in Solids	4
MATSCI 194	Phase Equilibria	4
MATSCI 195	Waves and Diffraction in Solids	4
MATSCI 196	Imperfections in Crystalline Solids	4
MATSCI 197	Rate Processes in Materials	4
MATSCI 198	Mechanical Properties of Materials	4
MATSCI 199	Electronic and Optical Properties of Solids	4