

Program:	Materials Science and Engineering
Degree:	BS
Department:	Materials Science and Engineering
Contact Name:	Dr. Terry Creasy
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Outcome	Master the depth of knowledge required for a degree
Marketable Skills	<ul style="list-style-type: none"> 1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

Outcome	Demonstrate critical thinking
Marketable Skills	<ul style="list-style-type: none"> 6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

Outcome	Communicate effectively
Marketable Skills	<ul style="list-style-type: none"> 3. an ability to communicate effectively with a range of audiences

Outcome	Practice personal and social responsibility
Marketable Skills	<ul style="list-style-type: none"> 4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

Outcome	Demonstrate social, cultural, and global competence
Marketable Skills	<ul style="list-style-type: none"> 2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

Outcome	Prepare to engage in lifelong learning
Marketable Skills	<ul style="list-style-type: none"> 7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Outcome	Work collaboratively
Marketable Skills	<ul style="list-style-type: none"> 5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives