

<b>Specialization Courses for MS&amp;E</b>		
<b>Course Name</b>	<b>Number</b>	<b>Dept. (see codes at bottom)</b>
<i>Nanotechnology</i>	BSC 5936	Bio
<i>Biomaterials and Biopolymers</i>	BME 5105	CBE
<i>Polymer Science and Engineering</i>	ECH 5828	CBE
<i>Structural Characterization of Materials</i>	ECH 5934	CBE
<i>Colloidal Engineering</i>	ECH 5934	CBE
<i>Electrochemical Engineering</i>	ECH 5937	CBE
<i>Chemical and Physical Characterization of Biopolymers</i>	BCH 5745	Chem
<i>Electrochemistry</i>	CHM 5153	Chem
<i>Measurements and Data Analysis in Chemistry</i>	CHM 5175	Chem
<i>Physical and Chemical Kinetics</i>	CHM 5440	Chem
<i>Polymer Characterization I &amp; II</i>	CHM 5454	Chem
<i>Survey of Physical Chemistry</i>	CHM 5530	Chem
<i>Physical Methods</i>	CHM 5681	Chem
<i>Characterization of Materials II: Magnetism and Magnetic Materials</i>	CHM 5717	Chem
<i>Topics in Materials Chemistry II: Nano-and Biomaterials</i>	CHM 5718	Chem
<i>Electronic Materials and Devices</i>	EEL 5930	ECE
<i>Advanced Composite Engineering Topics</i>	EIN 5930	IME
<i>Polymeric Materials Manufacturing and Processing</i>	EIN 5930	IME
<i>Applied Optimization</i>	ESI 5408	IME
<i>Engineering Data Analysis</i>	ESI 5417	IME
<i>Theory of Elasticity</i>	EGM 5653	ME
<i>Composite Materials Engineering</i>	EMA 5182	ME
<i>Mechanical Metallurgy</i>	EMA 5226	ME
<i>Computational Material Physics</i>	EML 4930/5930	ME
<i>Applied Superconductivity</i>	EML 5072	ME
<i>Design using FEM</i>	EML 5537	ME
<i>Continuum Mechanics</i>	EML 5611	ME
<i>Experimental Methods in Nanoscale Science and Engineering</i>	EML 5930	ME
<i>Introduction to Micro- and Nanoscale Science and Engineering</i>	EML 5930	ME
<i>Materials for Energy Systems</i>	EML 5930	ME
<i>Solid Mechanics and Electromagnetics of Continuous Media</i>	EML 5930	ME
<i>Introduction to Advanced Materials:</i>	EML 5930	ME
<i>Condensed Matter Physics I</i>	PHZ 5491	Phy
<i>Condensed Matter Physics II</i>	PHZ 5492	Phy
<i>Applied Computational Science I</i>	ISC 5315	SC
<i>Applied Computational Science II</i>	ISC 5316	SC
<i>Multiscale Modeling of Materials</i>	ISC 5935	SC
<i>Technology Entrepreneurship and Commercialization.</i>	Currently offered as a directed independent study	
<i>Bio = Biological Science</i>		
<i>CBE = Chemical and Biomedical Engineering</i>		
<i>Chem = Chemistry and Biochemistry</i>		
<i>ECE = Electrical and Computer Engineering</i>		
<i>IME = Industrial and Manufacturing Engineering</i>		
<i>ME = Mechanical Engineering</i>		
<i>Phy = Physics</i>		
<i>SC = Scientific Computing</i>		
<i>Updated Aug. 21, 2014</i>		