

Materials Science

Master of Engineering: 30 Credits / Courses

This option requires three core courses, and seven technical electives. There is no research or thesis required for this degree.

Materials Science Core Courses (take three):	
	ENMA650 Nanometer Structure of Materials
	ENMA660 Thermodynamics in Materials Science
	ENMA661 Kinetics of Reactions in Materials

Materials Science Pre-Approved Technical electives (choose seven):	
	ENMA620 Polymer Physics
	ENMA621 Advanced Design Composite Materials
	ENMA624 Radiation Engineering
	ENMA625 Biomaterials
	ENMA626 Fundamentals of Failure Mechanisms
	ENMA630 Advanced Nanosized Materials: Synthesis and Utilization
	ENMA640 Advanced Nano Processing of Materials with Plasma
	ENMA641 Nanotechnology Characterization
	ENMA642 Current Trends in Nanomaterials
	ENMA643 Advanced Photonic Materials
	ENMA645 Adv. Liquid Crystals and Other Monomeric Soft Matter Materials
	ENMA662 Advanced Smart Materials
	ENMA671 Defects in Materials
	ENMA680 Experimental Methods in Materials Science
	ENMA681 Diffraction Techniques in Materials Science
	ENMA682 Electron Microscopy for Research
	ENMA684 Advanced Finite Element Modeling
	ENMA685 Advanced Electrical and Optical Materials
	ENMA687 Nanoscale Photonics and Applications

*NOTE: Any courses not listed above must be approved by the Senior Academic Advisor **PRIOR** to registration.*

KEY	
Online Option *	(offering information)
[Prerequisite course]	