

Graduate Level Semester Master Course Schedule for MSE

Course #	Course Description	FL 01	SP 02	SU 02	FL 02	SP 03	SU 03	FL 03	SP 04	SU 04	FL 04	SP 05	SU 05	FL 05	SP 06	SU 06	FL 06	SP 07	SU 07	FL 07	SP 08	SU 08	FL 08	SP 09	SU 09	FL 09
MSE 6001	Written and Visual Communication														X											
MSE 6010	Fundamentals of Function Materials	X			X			X																X		
MSE 6105	Diffraction Studies		X			X		X																		
MSE 6110	Transmission Electron Microscopy	X			X				X			X			X			X			X			X		
MSE 6120	Quantitative Characterization of Microstructure		X			X			X			X			X			X			X			X		
MSE 6130	Surface Analysis			X			X			X			X			X						X			X	
MSE 6210	Defects	X			X			X																		
MSE 6310	Thermodynamics		X			X			X																	
MSE 6401	Thermodynamics (previously taught as 8803D)										X			X			X			X			X			X
MSE 6402	Crystallography, Structure, and Defects (also taught as 8803E)										X			X			X			X			X			X
MSE 6403	Kinetics of Phase Transformations (also taught as 8803G)											X			X			X			X			X		
MSE 6404	Scattering Theory											X			X			X			X			X		
MSE 6405	Advanced Nanomaterials (also taught as 8803B)									X	X	X			X			X			X			X		
MSE 6406	Corrosion of Materials																							X		
MSE 6410	Fine Particle Technology	X				X					X															
MSE 6501	Electronic/Optical/Magnetic Problems																									
MSE 6502	Chemical/Environmental Problems																									
MSE 6503	Mechanical Properties																									
MSE 6504	Biological Properties																									
MSE 6505	Nanomaterial Properties																									
MSE 6510	Polymers for Electronic and Photonic Applications I	X			X			X			X			X			X			X			X	X		X
MSE 6610	Biomaterials							X																		
MSE 6751	Physical Chemistry of Polymer Solutions		X			X			X			X			X			X			X			X		
MSE 6752	Polymer Characterization		X			X			X			X					X			X						X
MSE 6754	Engineering Communication	X	X		X	X		X	X		X	X		X			X	X		X	X		X	X		X
MSE 6774	Biomaterials: Structure and Function										X			X			X			X						
MSE 6776	Integrated Low-Cost Microelectronics Systems Packaging				X			X			X			X			X			X			X			X
MSE 6768	Polymer Structures, Physical Properties and Characterization		X						X			X			X			X			X			X		
MSE 6777	Advanced Biomaterials														X			X			X			X		
MSE 6795	Mathematical Foundations in Materials Science	X	X		X			X			X			X			X			X			X			X
MSE 6796	Structure-Properties Relationships in Materials	X			X			X			X												X			X
MSE 7140	Impedence and Dielectric Spectroscopy		X					X				X												X		
MSE 7771	Mechanics of Polymer Solids and Fluids			X			X						X							X			X			X
MSE 7772	Fundamentals of Fracture Mechanics		X			X			X			X			X			X						X		X
MSE 7774	Fatigue of Materials and Structures		X			X			X						X					X				X		
MSE 7792	Advanced Mechanics of Composites		X						X			X			X											

