

Updated 3/25/24		2023-24			2024-25			2025-26			2026-27			2027-28			2028-29			
	Hrs	Instructors	sm23	F23	Sp24	sm24	F24	Sp25	sm25	F25	Sp26	sm26	F26	Sp27	sm27	F27	Sp28	sm28	F28	Sp29
Core																				
MSE6411 Thermo of Materials	3	Gokhale; Kacher, Stingelin; Speyer		X			X			X			X			X			X	
MSE6402 Structure and Defects	3	Liu; Thadhani; Garten		X			X			X			X			X			X	
MSE6768 Polymer Struc& Props	3	Jacob			X		X			X			X			X			X	
Required																				
MSE6754 Engineering Comm	3	A. Alamgir		X			X			X			X			X			X	
MSE8200 Adv Comm	1	A. Alamgir		X		X	X		X	X			X		X	X		X	X	
MSE8801S MSE Seminar	1	Kacher, Toor		X	X		X	X		X	X		X	X		X	X		X	X
Cross-Cutting																				
MSE6110 Trans Electron Microscop	3	Kacher, Ding			X			X			X			X			X			X
MSE6120 Quant Chact-Microstruc	3	Gokhale										X								
MSE6130 Surface Analysis	3	F. Alamgir					X						X							X
MSE6140 Computational Mat Sci	3	Jang, Ramprasad, Deo		X		X			X			X		X		X			X	
MSE6403 Kinetics of Phase Transformations	3	Srinivasarao, Thadhani			X		X									X			X	
MSE6404 Scattering Theory	3	Garmestani		X		X		X		X		X		X		X			X	
MSE6754 Eng Communication	3	A. Alamgir		X		X		X		X		X		X		X			X	
MSE 8803 DFT Introduction to DFT	3	Ramprasad								X										
MSE8803F Thin Film Processing Sci&Tech	3	Losego			X					X							X			
MSE8803T Teaching Practicum	3	Thadhani										X								
MSE 8803M atomistic and molecular modeling for MSE (MD)	3	Jang					X			X			X							X
Functional Materials																				
MSE6335/4330 Fund of Soft Nanomtl & Nanstruc	3	Facchetti		X			X			X			X		X				X	
MSE6010 Functional Materials	3	Liu					X						X						X	
MSE6796 Struct-Property Relation	3	M. Mcdowell, Hailong Chen (ME)				X			X			X							X	
ECE/MSE/ME 6776 Micro Pakc	3	Bakir			X		X			X						X			X	
MSE7140 Impedance Spectroscopy	3	Gerhardt		X					X						X					
MSE8803C NanoMat & Tech	3	Tsukruk			X											X				
MSE6334 Materials for Energy Storage and Conversion	3	Liu/Kang		X					X						X					
MSE 6408 Quantum Mechanics for Materials Science and Engineering (8803N)	3	Vogel			X					X						X				
MSE8803 Energy Conversion	3	Correa-Baena		X											X					
Soft/Bio Materials																				
MSE6510 Poly Electr Phot	3	CP Wong			X															
MSE6600 Advanced Polymer Processing	3	Yao		X					X						X					
MSE/Chem6750 Prep&React of Polym	3	Reynolds or Gutekunst, alternating			X		X			X			X		X				X	
MSE6751 Phys Chem-Poly Solutions	3	Kumar, Srinivasarao			X		x		X			X		X		X			X	x
MSE6752 Polymer Characterization	4	Tsukruk; Kumar		X		X			X			X		X		X			X	
MSE 6757/CHEM 8873/CHBE 8803 Advanced Polymer Chemistry	3	Reynolds, another spring					X			X			X		X				X	
MSE6775 Polymer Communication	1	Danielsen (SP), Gutekunst (odd FA), Brettman (even)		X	X		X	X		X	X		X	X		X	X		X	X
MSE6777 Advanced Biomaterials	3	Garcia and Babansee (BME)			X		X			X			X		X				X	
MSE7771 Mech-Polymer Solid & Fluid	3	Jacob				X													X	
MSE8803B/4335 Soft Nano/Bio Matls	3	Tsukruk			X		X			X			X		X				X	
MSE6603 Natural Polymers	3	Shofner, Russo					X						X						X	
Structural Materials																				
MSE7210 Deformation and Strengthening mechanisms	3	Thadhani			X				X				X		X				X	
MSE7772 Fund-Fracture Mechanics	3	Zhou handles ME rotation of faculty		X			X								X				X	
MSE/ME7774 Fatigue of Mat&Struc	3	Neu/Pierron (ME)			X		X			X			X		X				X	
MSE8803C/4006 Process& App-Engr Alloys	3	Gokhale, Thadhani			X		X			X			X		X				X	
MSE6409 Fundamentals of Corrosion	3	Singh			X		X			X			X		X				X	