

Course Number	Course Title	Energy and Environment		Non-Focus Area Electives	
		Nanotechnology: F1	Nanotechnology: F2		
NANO 200	Graduate Seminar in Chemical Engineering				
NANO 201	Introduction to NanoEngineering				
NANO 202	Intermolecular and Surface Forces				
NANO 203	Nanoscale Characterization				
NANO 204	Nanoscale Physics and Modeling		X		
NANO 205	Nanosystems Integration				
NANO 206	Nanofabrication				
NANO 210	Molecular Modeling and Simulations of Nanoscale Systems	X			
NANO 212	Computational Modeling of Nanosystem		X	X	
NANO 227	Structure and Analysis of Solids		X		
NANO 230	Synchrotron Characterization of Nanomaterials		X		
NANO 234	Advanced Nanoscale Fabrication		X		
NANO 238	Scanning Probe Microscopy		X		
NANO 241	Organic Nanomaterials	X	X	X	
NANO 242	Biochemistry and Molecular Biology	X	X		
NANO 243	Nanomedicine	X			
NANO 244	Nanomachines and Nanorobots	X			
NANO 245	Nanoelectronics			X	
NANO 247A	Advanced BioPhotonics	X			
NANO 247B	BioElectronics	X			
NANO 247C	BioNanotechnology	X			
NANO 250	Mechanics of Nanomaterials		X		
NANO 251A	Magnetic Materials: Principles and Applications		X		
NANO 252	Biomaterials and Biomimetics	X	X		
NANO 253	Nanomaterials and Properties		X		
NANO 255	Electrochemistry		X	X	
NANO 256	Microfluids		X		
NANO 257	Polymer Science and Engineering		X	X	
NANO 258	Nanoscale Transport Phenomenon			X	
NANO 259	Heterogeneous Catalysis			X	
NANO 260	Nanofabrication Reaction Engineering			X	
NANO 261	Nanoscale Energy Technology			X	
NANO 262	Nanosensors	X			
NANO 263	Magnetic Nanodevices		X		
NANO 264	Solid-State and Nanochemistry		X		
NANO 265	Thermodynamics of Solids		X		
NANO 266	Quantum Mechanical Modeling of Materials and Nanostructures			X	

Course Number	Course Title	Nanotechnology: F1 Biomedical Energy and Environment Molecular & Nanomaterials F2	Nanotechnologies for the Non-Focus Area Electives F3	Non-Focus Area Electives
NANO 267	Environmental Nanotechnology, Sustainable Nanotechnology, and Nanotoxicity		x	x
NANO 268	DNA Nanotechnology		x	
NANO 269	Engineering Solar Cells at the Nanoscale			x
NANO 271	Nanophotonics		x	
NANO 272	Soft Electronics	x		
NANO 273	Principles of Immune Engineering	x		
NANO 275	Two-Dimensional Materials: Properties, Applications, and Practice		x	
NANO 279	Advanced Electrochemical Energy Engineering			x
NANO 280	Colloids and Nanoparticles		x	
NANO 281	Data Science in Materials Science		x	
NANO 282	Professional Development			x
NANO 296	Independent Study in NanoEngineering			
NANO 298	Graduate Research in NanoEngineering			