

Course Number	Course Title	Focus Area 1: Biomedical Nanotechnology	Focus Area 2: Molecular & Nanomaterials	Focus Area 3: Nanotechnologies for the Energy & Enviornments	Non-Focus Area Electives
NENG-200	Graduate Seminar in Chemical Engineering				
NENG-201	Introduction to NanoEngineering				
NENG-202	Intermolecular and Surface Forces				
NENG-203	Nanoscale Characterization				
NENG-204	Nanoscale Physics and Modeling		X		
NENG-205	Nanosystems Integration				
NENG-206	Nanofabrication				
NENG-210	Molecular Modeling and Simulations of Nanoscale Systems	X			
NENG-212	Computational Modeling of Nanosystem		X	X	
NENG-227	Structure and Analysis of Solids		X		
NENG-230	Synchrotron Characterization of Nanomaterials		X		
NENG-234	Advanced Nanoscale Fabrication		X		
NENG-238	Scanning Probe Microscopy		X		
NENG-241	Organic Nanomaterials	X	X	X	
NENG-242	Biochemistry and Molecular Biology	X	X		
NENG-243	Nanomedicine	X			
NENG-244	Nanomachines and Nanorobots	X			
NENG-245	Nanoelectronics			X	
NENG-247A	Advanced BioPhotonics	X			
NENG-247B	BioElectronics	X			
NENG-247C	BioNanotechnology	X			
NENG-250	Mechanics of Nanomaterials		X		
NENG-251A	Magnetic Materials: Principles and Applications		X		
NENG-252	Biomaterials and Biomimetics	X	X		
NENG-253	Nanomaterials and Properties		X		
NENG-255	Electrochemistry		X	X	
NENG-256	Microfluids		X		
NENG-257	Polymer Science and Engineering		X	X	
NENG-258	Nanoscale Transport Phenomenon			X	
NENG-259	Heterogeneous Catalysis			X	
NENG-260	Nanofabrication Reaction Engineering			X	
NENG-261	Nanoscale Energy Technology			X	
NENG-262	Nanosensors	X			
NENG-263	Magnetic Nanodevices		X		
NENG-264	Solid-State and Nanochemistry		X		
NENG-265	Thermodynamics of Solids		X		
NENG-266	Quantum Mechanical Modeling of Materials and Nanostructures			X	
NENG-267	Environmental Nanotechnology, Sustainable Nanotechnology, and Nanotoxicity		X	X	
NENG-268	DNA Nanotechnology		X		
NENG-269	Engineering Solar Cells at the Nanoscale			X	

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NENG-271	Nanophotonics		X		
NENG-272	Soft Electronics	X			
NENG-273	Principles of Immune Engineering	X			
NENG-275	Two-Dimensional Materials: Properties, Applications, and Practice		X		
NENG-279	Advanced Electrochemical Energy Engineering			X	
NENG-280	Colloids and Nanoparticles		X		
NENG-281	Data Science in Materials Science		X		
NENG-282	Professional Development				X
NENG-298	Independent Study in NanoEngineering				
NENG-299	Graduate Research in NanoEngineering				