## **Course Offerings by Term**

Title	Course	Fall	Spring	Summer	
Bioengineering					
Radiofrequency Medical Devices	BIOENG 1005	$\checkmark$			
Introduction to Cell Biology I	BIOENG 1070	$\checkmark$			
Introduction to Cell Biology II	BIOENG 1071		√		
Introductory Cell and Molecular Biology Lab	BIOENG 1075	$\checkmark$	$\checkmark$		
Special Projects	BIOENG 1095	$\checkmark$	$\checkmark$	$\checkmark$	
Bioengineering Methods and Applications	BIOENG 1150		$\checkmark$		
Bioengineering Thermodynamics	BIOENG 1210	$\checkmark$	$\checkmark$		
Biotransport Phenomena	BIOENG 1220	$\checkmark$	$\checkmark$		
Linear Systems and Electronics I	BIOENG 1310		$\checkmark$		
Biological Signals and Systems	BIOENG 1320	$\checkmark$			
Biomedical Imaging	BIOENG 1330	$\checkmark$			
Biomedical Optical Microscopy	BIOENG 1383		$\checkmark$		
Introduction to Tissue Engineering	BIOENG 1620		$\checkmark$		
Biomechanics 1	BIOENG 1630		$\checkmark$		
Biomechanics 2	BIOENG 1631	$\checkmark$			
Biomechanics 3	BIOENG 1632		$\checkmark$		
Biomechanics 4	BIOENG 1633	$\checkmark$			
Biomaterials and Biocompatibility	BIOENG 1810	$\checkmark$			
Biological Sciences					
Foundations of Biology Research Lab 1	BIOSC 0057	$\checkmark$	$\checkmark$	$\checkmark$	
Foundations of Biology Research Lab 2	BIOSC 0067	$\checkmark$	$\checkmark$	$\checkmark$	
Foundations of Biology I	BIOSC 0150	$\checkmark$	$\checkmark$	$\checkmark$	
Foundations of Biology II	BIOSC 0160	√	$\checkmark$	$\checkmark$	
Biochemistry	BIOSC 1000	$\checkmark$		$\checkmark$	
Human Physiology - UHC	BIOSC 1070	$\checkmark$			
Introduction to Human Physiology	BIOSC 1250	$\checkmark$	$\checkmark$	$\checkmark$	
Macromolecular Structure & Function	BIOSC 1810	$\checkmark$			
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Chemistry					
Organic Chemistry 1	CHEM 0310	$\checkmark$	$\checkmark$	$\checkmark$	
Organic Chemistry 2	CHEM 0320	$\checkmark$	$\checkmark$	$\checkmark$	
General Chemistry for Engineering 1	CHEM 0960	$\checkmark$			
General Chemistry for Engineering 2	CHEM 0970	$\checkmark$	$\checkmark$	$\checkmark$	
Inorganic Chemistry	CHEM 1130	$\checkmark$	$\checkmark$		

Physical Chemistry 1	CHEM 1410	√	$\checkmark$	
Physical Chemistry 2	CHEM 1420	$\checkmark$	$\checkmark$	
Intermediate Physical Chemistry	CHEM 1480	$\checkmark$	$\checkmark$	
Atoms, Molecules, and Materials	CHEM 1620	√		
Civil Engineering				
Introduction to Structural Analysis	CEE 1330	$\checkmark$	$\checkmark$	
Design of Steel Structures	CEE 1341		$\checkmark$	$\checkmark$
Open Channel Hydraulics	CEE 1401		$\checkmark$	$\checkmark$
Introduction to Water Resources Engineering	CEE 1412	√	$\checkmark$	
Principles of Soil Mechanics	CEE 1811	$\checkmark$	✓	
Foundation Engineering	CEE 1821		$\checkmark$	$\checkmark$
Electrical & Computer Engineering				
Linear Circuits & Systems	ECE 0101	$\checkmark$	$\checkmark$	
Microelectronic Circuits & Lab	ECE 0102		$\checkmark$	$\checkmark$
Digital Circuits & Systems	ECE 0201	√	$\checkmark$	
Problem Solving in C++	ECE 0301	$\checkmark$	√	
Signals Systems & Probabilities	ECE 0402		$\checkmark$	$\checkmark$
Electrical Circuits Design Lab	ECE 1212		$\checkmark$	$\checkmark$
Introduction to Lasers & Optical Electronics	ECE 1232		$\checkmark$	
Digital Electronics	ECE 1238	$\checkmark$		
Semiconductor Device Theory	ECE 1247	√	$\checkmark$	
Introduction to Nanotechnology & Nanoengineering	ECE 1250	√		
Fabrication & Design in Nanotechnology	ECE 1251		$\checkmark$	
Applied Fields & Waves	ECE 1266	√		
Junior Design Fundamentals	ECE 1895	$\checkmark$	$\checkmark$	$\checkmark$
General Engineering				
Introduction to Engineering Analysis	ENGR 0011	$\checkmark$		
Engineering Computing	ENGR 0012		✓	
Probability & Statistics	ENGR 0021	√	$\checkmark$	$\checkmark$
Materials Structures & Properties	ENGR 0022	$\checkmark$	$\checkmark$	
Statics & Mechanics of Materials 1	ENGR 0135	√	$\checkmark$	$\checkmark$
Statics & Mechanics of Materials 2	ENGR 0145	$\checkmark$	$\checkmark$	$\checkmark$
Introduction to Nanotechnology & Nanoengineering	ENGR 0240	$\checkmark$		
Health & Rehabilitation Sciences				
Human Physiology	HRS 1023	√		

Introduction to Prosthetics and Orthotics	HRS 1787	-	-	-
Industrial Engineering	IE 1010			
Manufacture of Structural Nanomaterials	IE 1012		$\checkmark$	
Materials Science				
Computational Material Science	MSE 2012	√	1	
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Math				
Analytical Geometry & Calculus 1	MATH 0220	$\checkmark$	√	$\checkmark$
Analytical Geometry & Calculus 2	MATH 0230	$\checkmark$	√	$\checkmark$
Analytical Geometry & Calculus 3	MATH 0240	$\checkmark$	√	$\checkmark$
Matrices & Linear Algebra	MATH 0280	$\checkmark$	✓	$\checkmark$
Differential Equations	MATH 0290	$\checkmark$	$\checkmark$	$\checkmark$
Vector Analysis & Applications	MATH 1550	$\checkmark$		$\checkmark$
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Mechanical Engineering				
Introduction to Design	MEMS 0024	$\checkmark$		
Linear Circuits & Systems 1	MEMS 0031		√	$\checkmark$
Thermodynamics of Materials	MEMS 0048		$\checkmark$	
Introduction Thermodynamics	MEMS 0051		$\checkmark$	
Introduction to Fluid Mechanics	MEMS 0071	$\checkmark$	√	
Experimental Methods in MSE	MEMS 1010	$\checkmark$		
Structure & Properties Lab	MEMS 1011		$\checkmark$	
Dynamic Systems	MEMS 1014	$\checkmark$	√	
Rigid Body Dynamics	MEMS 1015		✓	$\checkmark$
Vibrations	MEMS 1020		√	
Mechanical Design 1	MEMS 1028	$\checkmark$	√	
Mechanical Measurements 1	MEMS 1041	$\checkmark$	$\checkmark$	
Automatic Controls	MEMS 1045	$\checkmark$		
Finite Element Analysis	MEMS 1047	$\checkmark$		
Analysis & Characteristics at the Nanoscale	MEMS 1048		$\checkmark$	
Mechatronics	MEMS 1049		$\checkmark$	$\checkmark$
Applied Thermodynamics	MEMS 1051	$\checkmark$	$\checkmark$	
Heat & Mass Transfer	MEMS 1052	$\checkmark$	$\checkmark$	
Structures of Crystals	MEMS 1053	$\checkmark$		
Micro/Nano Manufacturing	MEMS 1057	$\checkmark$		
Phase Equilibria	MEMS 1059	$\checkmark$		
Phase Transformation	MEMS 1063		$\checkmark$	

Applied Fluid Mechanics	MEMS 1071		<b>√</b>	$\checkmark$
Electromechanical Sensors & Actuators	MEMS 1082	$\checkmark$		
Materials for Energy Generation & Storage	MEMS 1111			$\checkmark$
Neuroscience				
Introduction to Neuroscience	NROSCI 1000	$\checkmark$	$\checkmark$	$\checkmark$
UHC Introduction to Neuroscience	NROSCI 1003	$\checkmark$		$\checkmark$
Physics				
Physics for Science & Engineering 1	PHYS 0174	√		√
Physics for Science & Engineering 2	PHYS 0175		√	$\checkmark$
Lab Physics for Science & Engineering	PHYS 0219	$\checkmark$	<b>√</b>	$\checkmark$
Principles of Modern Physics 1	PHYS 0477	$\checkmark$		
Principles of Modern Physics 2	PHYS 0481		√	
Modern Physical Measurements	PHYS 0520	$\checkmark$		
Mechanics	PHYS 1331		$\checkmark$	
Thermodynamics & Statistical Methods	PHYS 1341		$\checkmark$	
Intermediate Electricity & Magnetism	PHYS 1351	$\checkmark$		
Wave Motion & Optics	PHYS 1361	$\checkmark$		
Introduction to Quantum Mechanics 1	PHYS 1370	$\checkmark$		
Introduction to Quantum Mechanics 2	PHYS 1371		$\checkmark$	
Electromagnetic Theory	PHYS 1372		$\checkmark$	
Solid State Physics	PHYS 1374	$\checkmark$		
Foundations of Nanoscience	PHYS 1375		$\checkmark$	
Introduction to Biological Physics	PHYS 1376	$\checkmark$		
Introduction to Nuclear & Particle Physics 1	PHYS 1378			$\checkmark$
Statistics			T	
Applied Statistical Methods	STAT 1000	√	✓	$\checkmark$