

2024-25 Bioengineering Tentative List of Course Offerings  
 Subject to Change - updated 6/11/2024

<b>Fall 2024</b>	<b>WINTER 2025</b>	<b>SPRING 2025</b>
<b>BIOENGR 10</b> Introduction to Bioengineering	<b>BIOENGR C101</b> Engineering Principles for Drug Delivery	<b>BIOENGR C102</b> Human Physiological Systems for Bioengr I
<b>BIOENGR 100</b> Bioengineering Fundamentals	<b>BIOENGR C107</b> Polymer Chemistry for Bioengineers	<b>BIOENGR 110</b> Biotransport and Bioreaction Processes
<b>BIOENGR C104</b> Physical Chemistry of Biomacromolecules	<b>BIOENGR 121</b> Introduction to Microcontrollers	<b>BIOENGR 132</b> Nanogenerators
<b>BIOENGR C105</b> Engineering of Bioconjugates	<b>BIOENGR 122*</b> Introduction to Medical Imaging	<b>BIOENGR C139B</b> Biomolecular Materials Science II
<b>BIOENGR 120</b> Biomedical Transducers	<b>BIOENGR C139A</b> Biomolecular Materials Science I	<b>BIOENGR C147</b> Applied Tissue Engineering: Clinical and Industrial Perspective
<b>BIOENGR C135</b> Orthopaedic Biomechanical Engineering	<b>BIOENGR CM140</b> Introduction to Biomechanics	<b>BIOENGR 167L</b> Bioengineering Laboratory
<b>BIOENGR CM145</b> Molecular Biotechnology for Engineers	<b>BIOENGR M153</b> Introduction to Microscale and Nanoscale Manufacturing	<b>BIOENGR 176</b> Principles of Biocompatibility
<b>BIOENGR M153</b> Introduction to Microscale and Nanoscale Manufacturing	<b>BIOENGR C155</b> Fluid-Particle and Fluid-Structure Interactions in Microflows	<b>BIOENGR 180L</b> System Integration in Biology, Engineering, and Medicine I Laboratory
<b>BIOENGR C166</b> Wearable Bioelectronics	<b>BIOENGR 167L</b> Bioengineering Laboratory	<b>BIOENGR CM186</b> Computational Systems Biology: Modeling and Simulation of Biological Systems
<b>BIOENGR 177A</b> Bioengineering Capstone Design I	<b>BIOENGR 175</b> Machine Learning and Data-Driven Modeling in Bioengineering	<b>BIOENGR CM187</b> Research Communication in Computational and Systems Biology
<b>BIOENGR CM178</b> Introduction to Biomaterials	<b>BIOENGR 177B</b> Bioengineering Capstone Design II	<b>BIOENGR 188</b> Special Courses in Bioengineering
<b>BIOENGR M182</b> Systems Biomodeling and Simulation Basics	<b>BIOENGR 180</b> System Integration in Biology, Engineering, and Medicine I	
<b>BIOENGR 188</b> Special Courses in Bioengineering	<b>BIOENGR C185</b> Introduction to Tissue Engineering	
	<b>BIOENGR 188</b> Special Courses in Bioengineering	

Required core courses in RED

Approved electives in BLUE

Students must petition for courses in BLACK to satisfy elective requirements

\*BIOENGR 122 is a requirement for 2024-25 catalog and after