2022-23 Bioengineering Tentative List of Course Offerings
Subject to Change - updated 12/06/22

Fall 2022	***WINTER 2023***	***SPRING 2023***
BIOENGR 10 Introduction to Bioengineering	BIOENGR 107 Polymer Chemistry for Bioengineers	BIOENGR 110 Biotransport and Bioreaction Processes
BIOENGR 100 Bioengineering Fundamentals	BIOENGR 120 Biomedical Transducers	BIOENGR 121 Introduction to Microcontrollers
BIOENGR C104 Physical Chemistry of Biomacromolecules	BIOENGR C139A Biomolecular Materials Science I	BIOENGR C139B Biomolecular Materials Science II
BIOENGR C105 Engineering of Bioconjugates	BIOENGR CM140 Introduction to Biomechanics	BIOENGR C147 Applied Tissue Engineering: Clinical and Industrial Perspective
BIOENGR 125 Orthopaedic Biomechanical Engineering	BIOENGR C155 Fluid-Particle and Fluid-Structure Interactions in Microflows	BIOENGR C166 Wearable Bioelectronics
BIOENGR 132 Nanogenerators for Bioengineering	BIOENGR 167L Bioengineering Laboratory	BIOENGR 167L Bioengineering Laboratory
BIOENGR CM145 Molecular Biotechnology for Engineers	BIOENGR 170 Cell Engineering and Laboratory	BIOENGR 176 Principles of Biocompatibility
BIOENGR M153 Introduction to Microscale and Nanoscale Manufacturing	BIOENGR 175* Machine Learning and Data-Driven Modeling in Bioengineering	BIOENGR 180L System Integration in Biology, Engineering, and Medicine I Laboratory
BIOENGR 177A Bioengineering Capstone Design I	BIOENGR 177B Bioengineering Capstone Design II	BIOENGR CM186 Computational Systems Biology: Modeling and Si mulation of Biological Systems
BIOENGR CM178 Introduction to Biomaterials	BIOENGR 180 System Integration in Biology, Engineering, and Medicine I	BIOENGR CM187 Research Communication in Computational and Systems Biology
BIOENGR M182 Systems Biomodeling and Simulation Basics	BIOENGR C185 Introduction to Tissue Engineering	BIOENGR 188 Special Courses in Bioengineering
BIOENGR M260 Neuroengineering	BIOENGR M182 Systems Biomodeling and Simulation Basics	

Required core courses in RED
Approved electives in BLUE
Students must petition for courses in BLACK to satisfy elective requirements

*BIOENGR C175 only required for 2020 catalog and later