

2020-21 Bioengineering Tentative List of Course Offerings
 Subject to Change - updated 8/06/2020

FALL 2020	WINTER 2021	SPRING 2021
BIOENGR 10 Introduction to Bioengineering	BIOENGR C101 Engineering Principles for Drug Delivery	BIOENGR C102 Human Physiological Systems for Bioengineering I
BIOENGR 100 Bioengineering Fundamentals	BIOENGR C107 Polymer Chemistry for Bioengineers	BIOENGR 110 Biotransport and Bioreaction Processes
BIOENGR C104 Physical Chemistry of Biomacromolecules	BIOENGR 120 Biomedical Transducers	BIOENGR 121 Introduction to Microcontrollers
BIOENGR C105 Engineering of Bioconjugates	BIOENGR C139A Biomolecular Materials Science I	BIOENGR C139B Biomolecular Materials Science II
BIOENGR CM145 Molecular Biotechnology for Engineers	BIOENGR CM140 Introduction to Biomechanics	BIOENGR C147 Applied Tissue Engineering: Clinical and Industrial Perspective
BIOENGR M153 Introduction to Microscale and Nanoscale Manufacturing	BIOENGR C155 Fluid-Particle and Fluid-Structure Interactions in Microflows	BIOENGR M153 Introduction to Microscale and Nanoscale Manufacturing
BIOENGR 167L Bioengineering Laboratory	BIOENGR C175* Machine Learning and Data-Driven Modeling in Bioengineering	BIOENGR 167L Bioengineering Laboratory
BIOENGR 177A Bioengineering Capstone Design I	BIOENGR 177B Bioengineering Capstone Design II	BIOENGR 176 Principles of Biocompatibility
BIOENGR CM178 Introduction to Biomaterials	BIOENGR 180 System Integration in Biology, Engineering, and Medicine I	BIOENGR 180L System Integration in Biology, Engineering, and Medicine I Laboratory
BIOENGR M182 Systems Biomodeling and Simulation Basics	BIOENGR C185 Introduction to Tissue Engineering	BIOENGR CM187 Research Communication in Computational and Systems Biology
BIOENGR C183 Targeted Drug Delivery and Controlled Drug Release	BIOENGR CM186 Computational Systems Biology: Modeling and Simulation of Biological Systems	BIOENGR 188 Special Courses in Bioengineering
BIOENGR 188 Special Courses in Bioengineering	BIOENGR CM187 Research Communication in Computational and Systems Biology	
BIOENGR M260 Neuroengineering	BIOENGR 188 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 C175 only required for 2020 catalog and later