Bioengineering Recommended Electives

The following are recommended courses for the concentration in bioengineering. Discuss your specific interests with your advisor.

**Engineering electives:**
- CHE 331 Polymers
- CHE 360 Drug Delivery
- CHE 372 Biomolecular Engineering
- CHE 386 Composites
- ME 482 Advanced Fluid Dynamics w/ Apps
- ME 489 Intro to Biomedical Engineering
- ME 492 Biomechanics
- ECE 205 Human Machine and Adv in Med Techn
- ECE 322 Solid State Circuits
- ECE 434 Digital Signal Processing
- ECE 435 Image and Speech Signal Processing
- ECE 437 Biomed Systems Modeling

**Recommended biology electives:**
- BIOL 213 Comp. Vertebrate Anatomy
- BIOL 214 Neuroanatomy
- BIOL 245 Immunology
- BIOL 251 Molecular Genetics
- BIOL 270 Biostatistics
- BIOL 274 Intro to Bioinformatics
- BIOL 277 Cell Biology
- BIOL 314 Anatomy of Vision
- BIOL 356 Biomedical Informatics
- BIOL 345 Infectious Diseases
- BIOL 350 Genomics
- BIOL 351 Precision Medicine
- BIOL 3xx various biology electives

**Related Electives:**
- AGS 201 Intro to Aging Studies
- CHE 331 Polymers
- CHE 360 Drug Delivery
- CHE 372 Biomolecular Engineering
- CHE 386 Composites
- CHEM 221 Organic Chemistry I
CHEM 351 Biochemistry Survey
CM 261 Introduction to Numerical Computing for Engineers
ECE 205 Human Machine and Advances in Medical Technology
ECE 322 Introduction to Solid State Devices and Circuits
ECE 414 Embedded Systems
ECE 427 Sensors and Electronic Systems
ECE 434 Digital Signal Processing
ECE 435 Speech and Image Processing
ECE 437 Biomedical System Modeling and Analysis
HIST 215 History of Technology
HIST 252 Transformation of the American Environment
ME 470 Heat Transfer
ME 482 Advanced Fluid Dynamics with Applications
ME 489 Introduction to Biomedical Engineering
ME 492 Biomechanics
NEUR 201 Intro to Neuroscience
PHIL 145 Bioethics
PHIL 236 Philosophy of Science
PHIL 225 Philosophy of the Mind
PHYS 220 Medical and Biological Physics
PSTD 255 Multinational Business and Corporate Social Responsibility
PSYC 225 Psychopharmacology
PSYC 226 Human Factors and Engineering Psychology