



**BIOENGINEERING BS  
DEGREE CURRICULUM**

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

**Approved List of Upper Division Electives – Courses used to satisfy a concentration cannot be used to also satisfy electives**

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|--|---|--|
| <p>AMS 147-Computational Methods and Applications</p> <p>BIOC 100C -Biochemistry</p> <p>BIOL 105-Genetics</p> <p>BIOL 110-Cell Biology</p> <p>BIOL 114-Cancer Cell Biology</p> <p>BIOL 115-Eukaryotic Molecular Biology</p> <p>METX 119-Microbiology</p> <p>BIOL 125-Introduction To Neuroscience</p> <p>BIOL 130/L-Human Physiology/Lab</p> <p>BIOE 131/L-Animal Physiology/Lab</p> <p>BME 110-Computational Biology Tools ♦</p> <p>BME 128-Protein Engineering \$ ♦</p> <p>BME 130-Genomes ♦</p> <p>BME 140-Bioinstrumentation ♦</p> <p>BME 155-Biotechnology &amp; Drug Develop. ♦</p> <p>BME 170-Frontiers in Drug Action and Discovery</p> <p>BME 177-Engineering Stem Cells \$</p> <p>BME 178-Stem Cell Biology ♦</p> <p>BME 205-Bioinformatics Models and Algorithms \$ ♦</p> <p>BME 211-Computational Systems Biology</p> <p>BME 215-Applied Gene Technology</p> <p>BME 230/L-Computational Genomics</p> | <p>CHEM 108B/M-Organic Chemistry/Lab</p> <p>CMPE 100/L-Logic Design/Lab \$ ♪</p> <p>CMPE 110-Computer Architecture</p> <p>CMPE 118/L-Mechatronics/Lab ♪</p> <p>CMPE 121/L-Microprocessor System Design/Lab</p> <p>CMPE 131-Human-Computer Interaction</p> <p>CMPE 167/L-Sensing and Sensor Technology/Lab ♪</p> <p>CMPE 202-Computer Architecture</p> <p>CMPE 215-Models of Robotic Manipulation</p> <p>CMPE 233-Human Factors ♪</p> <p>CMPE 235-User Evaluation of Technology</p> <p>CMPS 101-Algorithms and Abstract Data Types</p> <p>CMPS 109-Advanced Programming ♪</p> <p>CMPS 115-Software Methodology</p> <p>CMPS 116-Software Design Project</p> <p>CMPS 180-Database Systems I</p> <p>CMPS 181-Database Systems II</p> <p>CMPS 182-Introduction to Database Management Syst....</p> | <p>EE 103-Signals and Systems</p> <p>EE 104-Bio-electronics and Bio-instrumentations ♣</p> <p>EE 115-Intro. to MEMS Design ♣</p> <p>EE 130/L-Intro. to Optoelectronics and Photonics/Lab ♣</p> <p>EE 145/L-Properties of Materials/Lab ♣</p> <p>EE 154-Feedback Control Systems ♣</p> <p>EE 171/L-Analog Electronics/Lab ♣</p> <p>EE 172-Advanced Analog Circuits \$ ♣</p> <p>EE 212-Introduction to BioMEMS ♣</p> <p>EE 216-Nanomaterials and Nanometer-scale Device ♣</p> <p>EE 230-Optical Fiber Communication ♣</p> <p>EE 270-Neural Implant Engineering ♣</p> <p>EE 293-Advanced Topics in Electrical Engineering ♣</p> |
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- \$-Counts towards Design Elective  
 ♦-Recommended for Biomolecular  
 ♣-Recommended for Bioelectronics  
 ♪-Recommended for Rehabilitation

Student Name \_\_\_\_\_ Student ID \_\_\_\_\_  
 Faculty Advisor: \_\_\_\_\_ Date: \_\_\_\_\_  
 Staff Advisor: \_\_\_\_\_ Date: \_\_\_\_\_