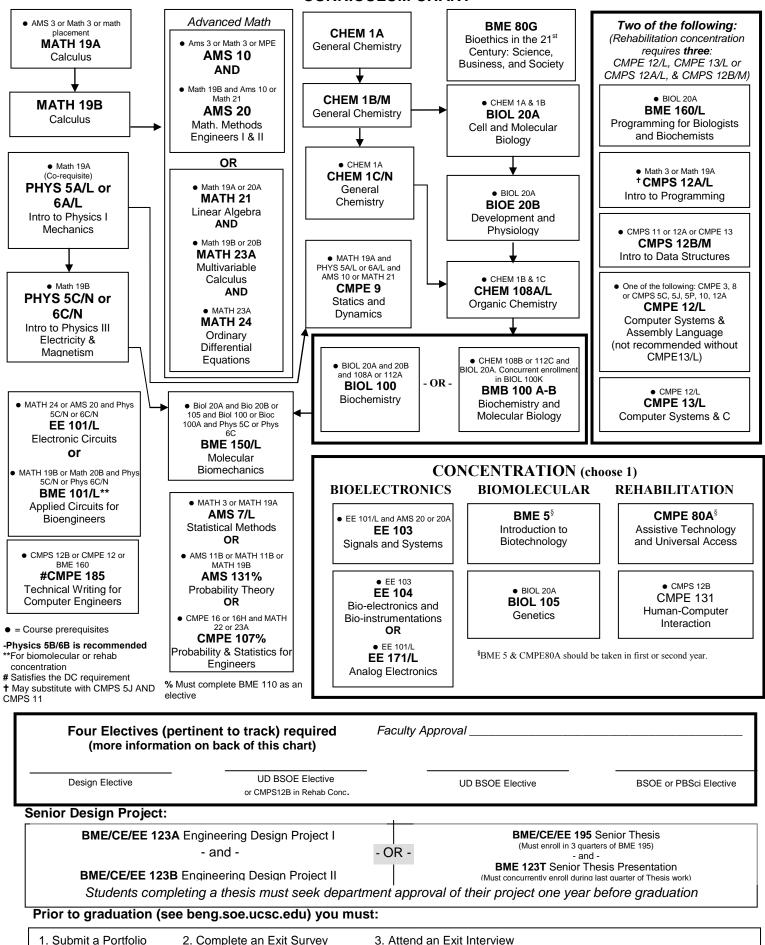
## 2013-14 BIOENGINEERING CURRICULUM CHART



## BIOENGINEERING BS DEGREE CURRICULUM

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Winter	Spring	Summer
	winter	

CHEM 108B/M-Organic Chemistry/Lab

CMPE 131-Human-Computer Interaction

CMPE 215-Models of Robotic Manipulation

CMPE 235-User Evaluation of Technology

CMPS 109-Advanced Programming ♪

CMPS 115-Software Methodology

CMPS 180-Database Systems I

CMPS 181-Database Systems II

CMPS 116-Software Design Project

CMPS 101-Algorithms and Abstract Data Types

CMPS 182-Introduction to Database Management Syst ....

CMPE 121/L-Microprocessor System Design/Lab

CMPE 167/L-Sensing and Sensor Technology/Lab ♪

CMPE 100/L-Logic Design/Lab \$ ♪

CMPE 110-Computer Architecture

CMPE 202-Computer Architecture

CMPE 233-Human Factors ♪

CMPE 118/L-Mechatronics/Lab♪

EE 103-Signals and Systems EE 104-Bio-electronics and Bio-

EE 115-Intro. to MEMS Design &

EE 130/L-Intro. to Optoelectronics and

EE 145/L-Properties of Materials/Lab ♣

EE 154-Feedback Control Systems 🛧

EE 171/L-Analog Electronics/Lab ♣

EE 212-Introduction to BioMEMS ♣

EE 172-Advanced Analog Circuits \$ 🌩

EE 230-Optical Fiber Communication 뢒

EE 270-Neural Implant Engineering 🛧

EE 293-Advanced Topics in Electrical

EE 216-Nanomaterials and Nanometer-scale

instrumentations &

Photonics/Lab &

Device 뢒

Engineering ♣

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

AMS 147-Computational Methods and Applications

BIOC 100C -Biochemistry

**BIOL 105-Genetics** BIOL 110-Cell Biology BIOL 114-Cancer Cell Biology BIOL 115-Eukaryotic Molecular Biology METX 119-Microbiology BIOL 125-Introduction To Neuroscience BIOL 130/L-Human Physiology/Lab BIOE 131/L-Animal Physiology/Lab BME 110-Computational Biology Tools ♦ BME 128-Protein Engineering \$ ♦ BME 130-Genomes ♦ BME 140-Bioinstrumentation ♦ BME 155-Biotechnology & Drug Develop. ♦ BME 170-Frontiers in Drug Action and Discovery BME 177-Engineering Stem Cells \$ BME 178-Stem Cell Biology ♦ BME 205-Bioinformatics Models and Algorithms \$ BME 211-Computational Systems Biology BME 215-Applied Gene Technology

- BME 230/L-Computational Genomics
- \$-Counts towards Design Elective
  ◆-Recommended for Biomolecular
  ◆-Recommended for Bioelectronics
- J-Recommended for Rehabilitation

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