Complete one of the following:

- AMS 3 or Math 3 or placement

- MATH 19A
  Calculus

- Math 19A
  (Co-requisite)
  PHYS 5A/L
  Intro to Physics I Mechanics

- Phys 5A/L
  PHYS 5B/M
  Intro to Physics II Waves

- Phys 5A/L
  PHYS 5C/N
  Intro to Physics III Electricity & Magnetism

- MATH 19B
  Multivariable Calculus

- Math 19B or Math 22 or 23A
  AMS 27/L
  Engineering Math (or Math 21 and Math 24)

- Phys 5C/N and AMS 27 or Math 24
  EE 70/L
  Electronic Circuits

- EE 70/L
  EE 103
  Signals and Systems

One of:

- BME 104
  Measurements and Instrumentation in Physiology

Prior to first offering of 104, may substitute:

- BIOL 110
  BIOL 130/L
  Human Physiology
  OR

- BIOL 20B and 100
  BIOL 131/L
  Animal Physiology

- CHEM 1A
  CHEM 1B/M
  General Chemistry

- CHEM 1B/M and BIOL placement exam
  BIOL 20A
  Cell and Molecular Biology

- BIOL 20A
  BIOL 20B
  Development and Physiology

- CHEM 1C/N
  CHEM 108A/L
  Organic Chemistry

- BIOL 100/L
  BME 150
  Biomolecular Mechanics

- BIOL 20B and Chem 7 or 108A or 112A
  BIOL 100/L
  Biochemistry

- BMB 100 A-B
  Biochemistry and Molecular Biology (also satisfies one elective)

Complete one of the following:

- BME 80G
  Bioethics in the 21st Century: Science, Business, and Society

- CMPE 80A
  Assistive Technology and Universal Access

- EE
  Introduction to Bioengineering (planned)

- BME
  Introduction to Biotechnology (planned)

Optional

- BIOL 89
  (IS)
  Clinical Health Care

- CMPS 12A/L or programming experience
  CMPE 12/L
  Computer Systems & Assembly Language

- CMPS 12/L or CMPE 12B or 13H
  CMPE 185
  Technical Writing for Computer Engineers

Electives

- BIOL: 105, 110, 115, 119, 120, 125, 130, 186L
- BIOL: 100B and C
- BME: 102, 110, 155, 205
- CHEM: 108B/M
- CMPE: 118/L, 121/L
- EE: 171/L, 212, 270

Choose four electives (2 must be engineering laboratory courses) - see list of electives above

Senior Design Projects

BME/CMPE/EE 123A Engineering Design Project I
  (EE 171 or CMPE 121 and CMPE 185)

BME/CMPE/EE 123B Engineering Design Project II
  (CMPE 123A and 185) - OR - Senior Thesis

Prior to graduation, you must:

1. Submit a Portfolio
2. Attend an Exit Interview
3. Complete an Exit Survey

= Course prerequisite
**AMS 3 or 11A or MATH 3 or MATH 11A or 19A or placement
***See general catalog for a list of prerequisites

Faculty Approval

www.soe.ucsc.edu/advising/undergraduate :: advising@soe.ucsc.edu :: (831) 459-5840 :: 4/2/2007
## UCSC BASKIN SCHOOL OF ENGINEERING
### BIOENGINEERING BS
#### DEGREE CURRICULUM
##### 2006-2007

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## BENG Electives Approval Form

**Student Name** ___________________________________________

**Student ID** _____________________________________________

**Elective 1** _____________________________________________

**Elective 2** _____________________________________________

**Elective 3** _____________________________________________

**Elective 4** _____________________________________________

**Explanation of choice of electives:**

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

**Faculty Advisor’s Approval:** _______________________________   Date: ___________