CONCENTRATIONS

BIOELECTRONICS

- PHYS 5C/N or 6C/N
- MATH 20 or MATH 20A or Math 24
- EE 70/L
- EE 103 Signals and Systems

BIOMOLECULAR

- PHYS 5C/N or 6C/N and MATH 20 or MATH 20A or Math 24
- EE 70/L
- EE 103 Signals and Systems

REHABILITATION

- CMPE 12 or CMPS 12B or CMPS 12C
- CMPE 12B
- CMPE 131
- CMPE 133
- CMPS 12C

Three prog. course

Four SOE electives*** pertinent to track.
(more information and suggestions on back of this chart)

Faculty Approval

Senior Design Project:

BME/CMPE/EE 123A Engineering Design Project I
(● co-requisite: CMPE 185)

BME/CMPE/EE 123B Engineering Design Project II (● CMPE 123A)
- OR -

BME/CMPE/EE 123C Senior Thesis

Prior to graduation, you must:

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

● = Course prerequisite
* May substitute any course sequence that enables enrollment in CHEM 108A/L
- Premedical students may wish to take Physics 5B/6B

***See prerequisite chart for a list of prerequisites

Two of the following:
(The Rehabilitation concentration requires three of the following:)

- BIOL 20A or 21A
- BME 60/L or BME 160/L
- Programming for Biologists and Biochemists

† CMPS 12A/L ***
- Intro to Programming
- Intro to Data Structures

CMPS 12B/M ***
- Computer Systems & Assembly Language

CMPE 12/L ***
- Computer Systems & C

One of:

EE 104***
- Measurements and Instrumentation in Physiology
- Prior to first offering of 104, may substitute:
  - BIOL 110
  - BIOL 130/L
  - BIOL 131/L

*** May substitute with CMPS 5J and CMPS 11
# May substitute with CMPE 107 with undergraduate director permission

2008-09 BIOENGINEERING CURRICULUM CHART
## BENG Electives Approval Form

These electives are well suited to the bioengineering major concentrations. Courses EE70/L and CMPE131 may be used as electives in tracks that do not require them. Electives must be chosen with and approved by your faculty advisor to ensure a coherent study plan. New bioengineering-oriented electives are introduced regularly.

**Bioelectronics:** EE/CE 154 (W) Control, EE115 (S) Intro MEMS, EE171/L (S) Analog Electronics, EE212 BioMEMS, EE270 Neural Implant Engr (W through S)

**Biomolecular:** BME110 (WS) Comp Bio Tools, BME140 (F) Bioinstrumentation, BME155 (W) Biotech & Drug Dvlpmnt

**Rehabilitation:** Electronics, CMPE118 (W), Mechatronics, CMPE121(F,S) Microproc. Sys, CMPE233 (W) Human Factors, CMPS109 (W) Advanced Programming

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**Explanation of choice of electives:**

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Faculty Advisor’s Approval: ____________________________ Date: ________________

www.soe.ucsc.edu/advising/undergraduate :: advising@soe.ucsc.edu :: (831) 459-5840 :: 6/24/2008