Bioinformatics Minor
Curriculum Chart
2011-2012

Math

MATH 19A*
Calculus

OR

MATH 11A
Calculus

OR

MATH 20A
Honors Calculus

AMS 131
Probability Theory

OR

CMPE 107**
Stochastic

MATH 19B*
Calculus

OR

MATH 11B
Calculus

OR

MATH 20B
Honors Calculus

Science

CHEM 1A
General Chemistry

CHEM 1B/M
General Chemistry

CHEM 1C/N
General Chemistry

† CHEM 108A
Organic Chemistry

‡ CHEM 112A
Org. Chem

Programing

CMPS 12A/L
Intro to Programming (Accelerated)

OR

CMPS 5C
Intro to Prog C

OR

CMPS 5J
Intro to Prog Java

OR

CMPS 5P
Intro to Prog Python

CMPE 107
Comp. Systems and Assembly Language

CMPE 12/L
Comp. Systems and C Programming

CMPE 13/L
Comp. Systems And C Programming

BME 160/L
Program. for Bio.

OR

CMPS 12B/M
Data Structures

Bioinformatics

BME 80G
Bioethics

OR

PHIL 145*
Genetics Ethics

OR

BME 247
Stem Cell Research: Ethical Issues

BME 110
Computational Biology Tools

ONE of:

AMS 132
Statistical Inference

OR

BIOC 100B
Biochemistry

OR

any upper division or graduate BME course

ONE of the following:

BIOE 20B
Development and Physiology

BIOL 105
Genetics

BIOL 110
Cell Biology

BIOL 115
Eukaryotic Molecular Biology

BIOL 119
Microbiology

BIOC 100A* or BIOL 100
Biochemistry

* Math 19A & 19B preferred

** additional prerequisite courses required

† Additional prerequisite of CHEM 108B or CHEM 112C waived if grade in 108A or 112A and 112B is B or above

http://ua.soe.ucsc.edu  advising@soe.ucsc.edu  (831)459-5840  7/8/2011
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Student Name ____________________________________________
Student ID ______________________________________________

Staff Advisor’s Approval: ____________________________ Date: __________

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