Bioinformatics Minor
Curriculum Chart
2009-2010

Math

MATH 19A
Calculus
OR
MATH 19B
Calculus
OR
MATH 11A
Calculus
OR
MATH 11B
Calculus
OR
MATH 20A
Honors Calculus
OR
MATH 20B
Honors Calculus

AMS 131
Probability Theory
OR
CMPE 107*
Stochastic

Science

CHEM 1A
General Chemistry
CHEM 1B/M
General Chemistry
CHEM 1C/N
General Chemistry
CHEM 108A
Organic Chemistry
CHEM 112A
Org. Chem
CHEM 112B
Org. Chem

(with the grade B or above)

BIO 20A
Cell & Molecular Biology

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

Programming

CMPS 12A/L
Intro to Program.
OR
CMPS 5C
Intro to Prog. C
OR
CMPS 5J
Intro to Prog. Java
OR
CMPS 5P
Intro to Prog. Python
OR
CMPE 12/L
Comp. System and Assem. Lang.
OR
CMPE 13/L
Comp System. And C Prog.

AND

CHEM 108A
Organic Chemistry
CHEM 112B
Org. Chem

ONE of:

AMS 132
Statistical Inference
OR
BIOC 100B
Biochemistry
OR
any upper division or graduate BME course

Bioinformatics

BME 80G
Bioethics
OR
PHIL 145*
Genetics Ethics
OR
BME 247
Stem Cell Ethical Issues
OR
BME 110
Computational Biology Tools

ONE of:

AMS 132
Statistical Inference
OR
BIOC 100B
Biochemistry
OR
any upper division or graduate BME course

*additional prerequisite courses required

† Additional prerequisite of CHEM 108B/M or CHEM 112C/N waived if grade in prior course is B or above

www.soec.ucsc.edu/advising/undergraduate :: advising@soe.ucsc.edu :: (831) 459-5840 :: 6/22/2009
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Student Name ____________________________________________

Student ID ______________________________________________

Staff Advisor’s Approval: _______________________________ Date: ___________