Bioinformatics B.S. Degree Curriculum Chart: 2013-2014

Math

CMPE 16

Applied Discrete Math

MATH 19A

Calculus

MATH 20A

OR Honors Calc.

MATH 19B Calculus

OR

MATH 20B Honors Calc.

MATH 23A

Multivariable Calculus

OR

CMPE 107 Stochastic Math Methods AMS 131
Probability Theory

AMS 132 Statistical

Inference

AMS 206

OR Bayesian Statistics

Bioinformatics

BME 80G

Bioethics

BME 110

Computational Biology Tools

BME 205

Bioinformatics Models and Algorithms

ONE of the following:

BME 211

Computational Systems Biology

BME 230/L

Computational Genomics

BME 195

Senior Thesis

Engineering

CMPS 5J

Intro to
Program.
Java

CMPE 12/L

Science

CHEM 1A

General Chemistry

CHEM 1B/M

General Chemistry

CHEM 1C/N

General Chemistry

OR

BIOL 20A

Cell & Molecular Biology
BIOL 105

Genetics

BIOC 100A Biochemistry

ONE of the following:

BIOL 110

Cell Biology

BIOL 115

Eukaryotic Molecular Biology

BIOL 119

Microbiology

BME 155

Biotechnology and Drug

Development

CHEM

108A/L

Org. Chem

AND

CHEM 108B/M

Org. Chem

CHEM

112A/L

AND

CHEM

112B/M

AND

CHEM

112C/N

Comp. System and Assembly Language

AND

AND

CMPS 11

Intermediate

Program.

OR

OR

CMPE 13/L Comp Systems And C Prog.

CMPS 12B/M

Data Structures

CMPS 101

Abstract Data Types

CMPS 109

OR

Advanced Programming

CMPS 180

CMPS 12A/L

Intro to

Programming

Database Systems

CMPS 182

Intro to Database Management Systems

CMPE 185**

Technical Writing

Notes

Shaded boxes represent foundation courses

- * Additional prerequisite courses required
- ** Satisfies the DC requirement

Please mark each class on this page accordingly before meeting with faculty:

T: Credit for class received through AP credit/transfer credit

Quarter/Year: The quarter & year you anticipate taking the class and/or have taken it

Electives

Two courses, approved by faculty advisor, consider the following:

AMS: 132, 203, 205, 207, 215

BIOC: 100B, 100C, 110

BIOL: 100L*, 105L, 105M, 109L, 110, 115, 115L*,

117A*, 117B, 119, 119L*, 187L*, 200A, 200B

BME: 102, 109, 130, 230

CHEM: 103, 108B/M, 112C/N, 200A, 200B, 200C

CMPE: 108, 177

CMPS: 101, 104A, 105, 115, 116*, 130, 140*, 142,

160/L

TIM: 206, 250

Choices must form a coherent program and be approved by a faculty advisor for bioinformatics.

http://ua.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840 • 10/28/2013

Bioinformatics B.S. Degree Curriculum Chart: 2013-2014

Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
		776	
	1		-
Fall	Winter	Spring	Summer
	BINF Elective	s Approval Form	
	Student Name		
	Student ID		
	Elective 1		
	Elective 2		
	Explanation of	choice of electives:	
	2		
			