Bioinformatics Minor
Curriculum Chart
2012-2013

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

(with the grade B or above)

BIOL 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

Bioinformatics

BME 80G
Bioethics

OR

PHIL 145*
Genetics Ethics

OR

BME 247
Stem Cell Research: Ethical Issues

OR

BME 110
Computational Biology Tools

ONE of:

AMS 132
Statistical Inference

OR

BIOC 100B
Biochemistry

OR

any other upper division or graduate BME course

Programming

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 12/L
Comp. Systems and Assembly Language

OR

CMPE 13/L
Comp. Systems And C Programming

OR

CMPS 12B/M
Data Structures

BME 160/L
Program. for Bio.

OR

BME 110
Computational Biology Tools

OR

ONE of:

AMS 132
Statistical Inference

OR

BIOC 100B
Biochemistry

OR

any other upper division or graduate BME course

* 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. Substitution of Chem 103 preapproved for minors.
BIOINFORMATICS MINOR
DEGREE CURRICULUM

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Student Name ____________________________________________

Student ID ______________________________________________

Staff Advisor’s Approval: __________________________ Date: ___________