Computer Science Curriculum – Bioinformatics/Cheminformatics Option (For students entering in Fall 2008)

91.101 92.131 42.101	Year/Fall Semester Computing I Calculus I College Writing I	Cr. 4 4 3	Freshman V 91.102 92.132 42.102 Slot 1	Year/Spring Semester Computing II Calculus II College Writing II Gen. Ed. Course (2)	Cr. 4 4 3 3
81.111	Principles of Biology I (5)	3 14	510t 1	Gen. Ed. Course	3 14
Sophomore	Year/Fall Semester	Cr.	Sophomore	Year/Spring Semester	Cr.
91.201	Computing III	4	91.204	Computing IV	3
91.203	Computer Org. & Assem. Language	4	16.265	Logic Design	3
92.321	Discrete Structures I	3	92.322		3
84.121	Chemistry I	3	84.122	-	3
84.123	Chemistry Lab I	<u>1</u>	84.124		1
			81. or 84	4 .Bio/Cheminfo. Elective	<u>3</u>
		15			16
Junior Year/Fall Semester		Cr.	Junior Yea	r/Spring Semester	Cr.
91.304	Foundations of Computer Science	3	91.301	Org. of Programming Lang.	3
91.305	Computer Architecture	3	91.308	Intro. to Operating Systems	3
42.220	Gen. Ed.: Oral & Writ. Comm. for CS		92.386	Probability & Statistics I	3
Slot 2	Gen. Ed.: CS Ethics (2)	3	81.405	Bioinformatics (4)	3
Slot 3	Gen. Ed. Course (2)	<u>3</u>	81.407	Bioinformatics Lab (4)	1
			Slot 4	Free Elective	<u>3</u>
		15			16
Senior Year/Fall Semester		Cr.		r/Spring Semester	Cr.
91	Project Course (1)	3	91	Project Course (1)	3
91.404	Analysis of Algorithms	3		4.Bio/Cheminfo Elective (3)	3
	l.Bio/Cheminfo Elective (3)	3	Slot 7		3
Slot 5	Gen. Ed. Course (2)	3	Slot 8	Gen. Ed. Course (2)	3
Slot 6	Free Elective	3 15	Slot 9	Free Elective	<u>3</u>
		15			15

Minimum Total Credits = 120

⁽¹⁾ Students will need to consult with their advisor to select the appropriate Project Course Sequence.

⁽²⁾ Consult the Schedule of Classes booklet regarding General Education (Gen. Ed.) requirements. Courses satisfying the CS Department Ethics Requirement are listed at the CS website.

⁽³⁾ These are generally advanced courses in the respective area (CS or Biology or Chemistry) that have applicability in Bio/Cheminformatics. If in doubt whether a course is applicable, see the undergraduate coordinator, your advisor or the bioinformatics program coordinator.

⁽⁴⁾ Students may replace this requirement with Cheminformatics, if offered. If neither course is available, check with the undergraduate coordinator, your advisor or the Bioinformatics program coordinator for an alternative course.

⁽⁵⁾ Students will need a permission number to take Principles of Biology I without the co-requisite Experimental Biology I.