

Biomolecular Science Sample Curriculum *					
First Semester		Credits	Second Semester		Credits
CM 103	Structure and Bonding	3	CM 104	Equilibrium and Dynamics	3
CM 105	Chemistry Lab I	2	CM 106	Chemistry Lab II	2
MA 131	Calculus I	3	MA 132	Calculus II	3
BY 140	Biology I	3	BY 160	Biology II	3
UNIV 190	Clarkson Seminar	3	BY 162	Biology II Lab	2
FY 100	First-Year seminar	1		KA Elective	3
Total		15	Total		16
Third Semester		Credits	Fourth Semester		Credits
CM 221	Spectroscopy	3	CM 242	Organic Chemistry II	3
CM 223	Spectroscopy Lab	3	CM 244	Organic Chemistry Lab	3
CM 241	Organic Chemistry I	3	BY 214	Genetics	3
PH 131	Physics I	4	PH 132	Physics II	4
	KA/UC Elective	3		KA/UC Elective	3
Total		16	Total		16
Fifth Semester		Credits	Sixth Semester		Credits
CM 371	Physics Chemistry I	3	CM 372	Physical Chemistry II	3
BY 450	Biochemistry I	3	BY 451	Biochemistry II	3
	Statistics	3		Professional Elective	3
	Professional Elective	3		Professional Experience	3
	Free Elective	3		Free Elective	3
Total		15	Total		15
		Thesis Option			
Seventh Semester		Credits	Eighth Semester		Credits
BY 412	Molecular Biology Lab	4	BY 470	Biotechnology Lab	3
	KA/UC Elective	3		Professional Elective	3
CM491	Senior Thesis	6		Senior Thesis	6
	Free Electives	2			
Total		15	Total		12

\*Students entering with AP credit or the addition of a minor or a 2nd major will make alternative course choices to meet their needs, therefore the curriculum shown is only an example. The curriculum will be discussed with the student's advisor before courses are selected for each semester.