

**Biotechnology Option
(For students entering in Fall 2009)**

Freshman Year/Fall Semester		Cr.	Freshman Year/Spring Semester		Cr.
__81.111	Principles of Biology I	3	__81.112	Principles of Biology II	3
__81.117	Experimental Biology I	1	__81.118	Experimental Biology II	1
__84.121	Chemistry I	3	__84.122	Chemistry II	3
__84.123	Chemistry I Lab	1	__84.124	Chemistry II Lab	1
__42.101	(Gen. Ed.) College Writing I	3	__92.131	Calculus I	4
__ __. __	(Gen. Ed.) Social Science*	<u>3</u>	__42.102	(Gen. Ed.) College Writing II	<u>3</u>
		14			15
Sophomore Year/Fall Semester		Cr.	Sophomore Year/Spring Semester		Cr.
__81.201	General Microbiology	3	__81.252	Physiology	3
__81.203	General Microbiology Lab	2	__81.254	Physiology Lab	2
__84.221	Organic Chemistry I-A	3	__84.222	Organic Chemistry II-A	3
__84.229	Organic Chemistry I-A Lab	1	__84.230	Organic Chemistry II-A Lab	1
__92.132	Calculus II	4	__ __. __	Statistics Elective	3
__ __. __	(Gen. Ed.) Social Science*	<u>3</u>	__ __. __	(Gen. Ed.) Arts/Humanities*	<u>3</u>
		16			15
Junior Year/Fall Semester		Cr.	Junior Year/Spring Semester		Cr.
__81.419	Biochemistry	3	__81. __	Biotechnology Elective	3
__81.421	Techniques in Biochemistry	2	__95.104	General Physics II	3
__81.335	Principles of Genetics	3	__96.104	Gen. Exp. Physics II	1
__81.337	Principles of Genetics Lab	1	__81. __	Biotechnology Elective	3
__95.103	General Physics I	3	__ __. __	(Gen. Ed.) Arts/Humanities*	3
__96.103	Gen Physics Lab I	1	__ __. __	Free Elective	<u>1-3</u>
__ __. __	(Gen. Ed.) Social Science*	<u>3</u>			14-16
		16			
Senior Year/Fall Semester		Cr.	Senior Year/Spring Semester		Cr.
__81.451	Senior Seminar in Adv. Topics I	1	__81.452	Senior Seminar in Adv Topics	1
__81.493	Immunology	3	__81.467	Molecular Biology	3
__81.495	Immunology Lab	2	__81.469	Molecular Biology	3
__81.442	Cell Biology or 81.460 Stem Cell Biology	3	__81.476	Cell Culture	3
__ __. __	Free elective**	1-3	__ __. __	(Gen. Ed.) Arts/Humanities*	3
__ __. __	Free Elective**	<u>1-3</u>	__ __. __	Free Elective**	<u>1-3</u>
		12-15			12-15

Minimum total credits = 120

* Consult the *Schedule of Classes* booklet regarding General Education (Gen. Ed.) requirements. The General Education Electives may be taken in any order. One Ethics Course (E) and one Diversity Course (D) need to be included among the total of six AH and SS courses.

**Any UML course xx.101 and above will fulfill the Free Elective requirement (exception: Math courses must be above the level of Calculus II). Additional Biology lecture and laboratory courses (with an 81 prefix) may be taken to fulfill the Free Elective requirement.