

Biology Sample of a Program of Study - Molecular Track

		Fall Semester			Spring Semester		
		Course	Course Title	Hrs.	Course	Course Title	Hrs.
Freshman		MA 106	Precalculus Trigonometry	3	MA 125	Calculus I	4
		CH 115, 115R	General Chemistry I with Recitation	3, 0	EH 102	English Composition II	3
		CH 116	General Chemistry I Lab	1	BY 123, 123L	Biology I with Lab	4, 0
		EH 101	English Composition	3	CH 117, 117R	General Chemistry II with Recitation	3, 0
			NSM Freshman Year Experience	1	CH 118	General Chemistry II Lab	1
			Core II or IV	3			
			Total Credits:	14		Total Credits:	15
Sophomore		CH 235, 235R	Organic Chemistry with Recitation	3,0	CH 237, 237R	Organic Chemistry II with Recitation	3, 0
		CH 236	Organic Chemistry Lab	1	CH 238	Organic Chemistry II Lab	1
		BY 124, 124L	Biology II with Lab	4, 0	BY 210	Genetics	3
			Core II or IV	3		Core II or IV	3
			Elective	3	BY 330	Cell Biology	3
						** CH 460 Summer only (or fall senior year CH 461)	
			Total Credits:	14		Total Credits:	13
Junior		BY 311	Molecular Genetics	3	BY 271, L	Biology Microorganisms	4
		PH 201,R,L	Physics I with Recitation and Lab	4	PH 202, R, L	Physics II with Recitation and Lab	4
			Core II or IV			Core II or IV or BY 245 (see note below)	3
			Core II or IV			Core II or IV	3
			Elective	3		Elective	3
			Total Credits:	16		Total Credits:	17
Senior		BY 433	Advance Molecular Genetics (or BY 416 Cell Phys)	3	BY 431	Recombinant DNA Technology (or BY 416 Cell Phys)	3
		BY 440	Immunology	3	BY 245	Fundamentals of Scientific Investigation or CORE (see note)	3
		BY	BY Elective (see note below)	3-4	BY	BY Elective (see note below)	3-4
		CH 460/461	Biochemistry	3		School Wide	3
			School Wide	3		Core II or IV	3
			Total Credits:	15-16		Total Credits:	15-16

1. Assumes student is placed in MA 106
2. Assumes student has had one year of High School Chemistry, grade C or better.
3. Assumes student will successfully pass Physics Placement Test in lieu of PH 100
4. Assumes no AP, Dual Enrollment, IB or CLEP credit
5. Must complete at least one Literature Core II and two History Core IV or two Literature Core II and one History Core IV
6. BY 101, 102, 107, 111, 112, 116, 216, 261, 307 **do not count** toward Biology Elective (Required 7 semester hours of BY electives)
7. Must earn BY GPA of at least 2.0
8. See BY Advisor once each term.
9. Some BY courses rotate every other year (BY 245) see advisor
10. Biochemistry - CH 460 is taught summer and fall/ CH 461 only offered in fall.