

# Sample 4-Year Schedule for Molecular Biology & Biotechnology Major

## Bachelor of Science 120 Hours

This plan assumes that the College Algebra requirement has been met or that the student has a Math ACT score of 25 or higher.

<b>Freshman</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BI 102 – General Cellular Biology	5	BI 103 – General Organismal Biology	5
CH 151 – Fundamentals of Chemistry I	5	CH 152 – Fundamentals of Chemistry II	5
EN 101 – First Year Writing	3	BI 234 – Introduction to Biotechnology	3
WU 101 – Washburn Experience (Biology)	3	Soc. Sci. General Education	3
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>16</b>
			<b>32</b>
<b>Sophomore</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CH 340 – Organic Chemistry I	3	CH 341 – Organic Chemistry II	3
CH 342 – Organic Chemistry I Lab	2	CH 343 – Organic Chemistry II Lab*	2
BI 301 – General Microbiology	4	BI 333 – General Genetics	4
MA 151 – Calculus I	5	MA 140 – Statistics ***	3
		PH 214 – Medical Ethics	3
<b>TOTAL</b>	<b>14</b>		<b>15</b>
			<b>29</b>
<b>Junior</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
PS 261 – College Physics I	5	PS 262 – College Physics II	5
BI 353 – Molecular Genetics	3	EN 300 – Advanced Composition	3
Soc. Sci. General Education	3	BI 354 – Molecular Biology Laboratory	3
AR/MU/TH General Education	3	Soc. Sci. General Education	3
		Elective	3
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>17</b>
			<b>31</b>
<b>Senior</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
BI 390 – Biology Seminar	1	BI 395 – Biology Research	3
Molecular Bio/Biotechnology Elective**	3	Molecular Bio/Biotechnology Elective**	3
Humanities General Education	3	BI 440 – Biotechnology Internship	3
CH 350 – Biochemistry I	3	Elective	3
CH 351 – Biochemistry I Lab	2	Elective	1
Elective	3		
<b>TOTAL</b>	<b>15</b>		<b>13</b>
			<b>120</b>

\*Organic Chemistry II Lab is one of several Microbiology/Biotechnology Elective courses that may be taken.

\*\*Choose 8 hours from the following: BI322, BI325, BI328, BI330, BI343, BI355, BI357, BI362, BI363, BI370, CH343, CH352, CH353.

\*\*\*May take either MA140, MA145, or BI314 to satisfy this Quantitative course requirement. BI314 may be also be counted as a MBB Elective.

Note: Some courses may be taken during the summer sessions (not shown in above schedule) to help reduce the number of hours during the fall and spring semesters. Additionally, some Biology elective courses are offered only in the summer. Please consult the Biology Department's web site for more information.