

Course No.	Course Title	Credits	Co/Pre-Reqs	Year / Semester Taken
<input type="checkbox"/> BIOL 220	General Biology I (with lab)	4	Co-Req: WRIT 101 & MATH 141; or permission of department	
<input type="checkbox"/> BIOL 222	General Biology II (with lab)	4	Pre-Req: BIOL 220; or permission of department	
<input type="checkbox"/> BIOL 240	Cellular and Molecular Biology (with lab)	4	Pre-Req: BIOL 220, BIOL 222 and CHEM 233/234; or permission of department	
<input type="checkbox"/> BIOL 251	Laboratory Research Methods	2	Pre-Req: BIOL 220 & MATH 141 or higher	
<input type="checkbox"/> CHEM 233	General Chemistry I	3	Co-Req: MATH 141 or 201 or exemption, & CHEM 234; or permission of department	
<input type="checkbox"/> CHEM 234	General Chemistry I: Laboratory ( <i>required to take concurrently with CHEM 233</i> )	1	Co-Req: CHEM 233	
<input type="checkbox"/> CHEM 235	General Chemistry II	3	Pre-Req: CHEM 233/234; Co-req: CHEM 236 & MATH 141 or 210 or exemption	
<input type="checkbox"/> CHEM 236	General Chemistry II: Laboratory ( <i>required to take concurrently with CHEM 235</i> )	1	Co-Req: CHEM 235	
<input type="checkbox"/> MATH 210	Calculus I	3	Pre-Req: MATH 141 or permission of department	
<b>Notes: B.S. Biology majors should NOT take MATH 113. Students are required to take MATH courses up to and including MATH 210. Depending on mathematical background, Biology majors should start at an appropriate place in the mathematics sequence. See Catalogue for more information</b>				
<input type="checkbox"/> PHYS 261	General Physics I (with lab)	4	Pre-Req: MATH 141 or exemption	
<input type="checkbox"/> PHYS 262	General Physics II (with lab)	4	Pre-Req: PHYS 261	
<input type="checkbox"/> CHEM 317	Organic Chemistry I	3.5	Pre-Req: CHEM 235/236 Co-Req: CHEM 318	
<input type="checkbox"/> CHEM 318	Organic Chemistry I: Laboratory ( <i>required to take concurrently with CHEM 317</i> )	1.5	Co-Req: CHEM 317	
<input type="checkbox"/> CHEM 319	Organic Chemistry II	3.5	Pre-Req: CHEM 317/318 Co-Req: CHEM 320	
<input type="checkbox"/> CHEM 320	Organic Chemistry II: Laboratory ( <i>required to take concurrently with CHEM 319</i> )	1.5	Pre-Req: CHEM 317/318, Co-Req: CHEM 319	
<input type="checkbox"/> BIOL 320	Microbiology (with lab)	4	Pre-Req: BIOL 240	
<input type="checkbox"/> BIOL 329	Physiology (with lab)	4	Pre-Req: WRIT 102 or WRIT 201, BIOL 220 & CHEM 235/236	
<input type="checkbox"/> BIOL 425	Genetics	4	Pre-Req: WRIT 102, BIOL 220/ 222/ 240, & CHEM 317/318	
<input type="checkbox"/> BIOL/CHEM 441	Biochemistry	4	Pre-Req: WRIT 102, BIOL 220, 222, & CHEM 317/318	
<input type="checkbox"/> BIOL 490	Senior Seminar	1	Pre-Req: BIOL/CHEM 441 or BIOL 425	
<b>B.S. Biology Major</b>		<b>60</b>		
<b>Electives (14-18 credits)</b>				
Course No.	Course Title	Credits	Year/ Semester Taken	
<input type="checkbox"/>				
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<input type="checkbox"/>				
<input type="checkbox"/>				
<b>Total Number of Credits Required for Graduation</b>		<b>120</b>		

**DIVISION OF THE SCIENCES**  
**8 Semester Academic Plan**  
**B.S. BIOLOGY**

(Note: Courses highlighted in red/bolded should be taken in the semester indicated)

Freshman Year- Review your degree requirements; consider adding a minor			
Fall:		Spring:	
NYC Seminar (DS course)	3	<b>WRIT 101 Writing Seminar or WRIT 201</b>	3
<b>MATH 141 Precalculus I</b>	3	<b>BIOL 222 General Biology II</b>	4
<b>BIOL 220 General Biology I</b>	4	<b>CHEM 235 General Chemistry II</b>	3
<b>CHEM 233 General Chemistry I</b>	3	<b>CHEM 236 General Chemistry II Lab</b>	1
<b>CHEM 234 General Chemistry I Lab</b>	1	DS Course	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>14</b>
Sophomore Year - Begin to explore internship or study abroad opportunities			
Fall:		Spring:	
<b>WRIT 102 Writing Seminar II (or elective course if WRIT 201 was taken)</b>	3	DS Course	3
<b>BIOL 251 Laboratory Research Methods</b>	2	DS Course	3
<b>MATH 210 Calculus</b>	3	<b>BIOL 240 Cellular &amp; Molecular Biology</b>	4
<b>CHEM 317 Organic Chemistry I</b>	3.5	<b>CHEM 319 Organic Chemistry II</b>	3.5
<b>CHEM 318 Organic Chemistry I Lab</b>	1.5	<b>CHEM 320 Organic Chemistry II Lab</b>	1.5
DS Course	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>
Junior Year- Meet with Career Services or your Advisor to begin exploring graduate school and/or job market opportunities			
Fall:		Spring:	
AIP Course	3	AIP Course	3
AIP course	3	AIP Course	3
<b>**BIOL/CHEM 441 Biochemistry</b> or <b>BIOL 329 Physiology</b>	4	<b>**BIOL 425 Genetics</b> or <b>BIOL 320 Microbiology</b>	4
<b>PHYS 261 General Physic I</b>	4	<b>PHYS 262 General Physics II</b>	4
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14</b>
Senior Year- Review your graduation requirements; begin applying for jobs and/or graduate school			
Fall:		Spring:	
AIP Course	3	AIP Course	3
<b>**BIOL/CHEM 441 Biochemistry</b> or <b>BIOL 329 Physiology</b>	4	<b>**BIOL 425 Genetics</b> or <b>BIOL 320 Microbiology</b>	4
*Elective/Science Research/Internship	3	<b>BIOL 490 Senior Seminar</b>	1
*Elective/Science Research	3	*Elective/Science Research	3
*Elective/Science Research	3	*Elective/Science Research	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14</b>
<h1 style="color: #FF00FF; font-family: cursive;">Important Notes:</h1> <p style="color: #0000FF;">This plan may be subject to change, due to curriculum changes, course availability or advisor modification.</p>			
<ul style="list-style-type: none"> <li>• *Science Research courses (BIOL/CHEM/PHYS 297, 397, 497) are strongly recommended as elective credits.</li> <li>• **BIOL 320 and 329 are in alternating years as are BIOL 441, 425 and BIOL 490.</li> </ul>			