

Biomedical Concentration

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 315	Cellular and Molecular Biology	4	Pre-Req: BIOL 220/220 and CHEM 233/234 or permission of department	
<input type="checkbox"/> BIOL/CHEM 441	Biochemistry	4	Pre-Req: WRIT 102 or WRIT 201, BIOL 220/222 & CHEM 319/320	
<input type="checkbox"/> CHEM 233	General Chemistry I	3	Co-Req: MATH 141 or 210 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"/> CHEM 317	Organic Chemistry I	3	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>	2	Co-Req: CHEM 317	
<input type="checkbox"/> CHEM 319	Organic Chemistry II	3	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>	2	Pre-Req: CHEM 317/318 Co-Req: CHEM 319	
<input type="checkbox"/> MATH/BIOL 218	Biostatistics	3	Pre-Req: MATH 141 or above or permission of department	
<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"/> PSYCH 101	General Psychology	3	Pre-Req: N/A	
<input type="checkbox"/> SOC 101	Introduction to Sociology	3	Co-Req: WRIT 101	
Biomedical Sciences Major		51		
Electives (30 credits)				
Course No.	Course Title	Credits	Year / Semester Taken	
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
<input type="checkbox"/>		3		
Total Number of Credits Required for Graduation		120		

DIVISION OF THE SCIENCES
8 Semester Academic Plan
B.S. BIOMEDICAL SCIENCE: BIOMEDICAL CONCENTRATION

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

Freshman Year- Review your degree; consider adding a minor			
Fall:		Spring:	
NYC Seminar (DS Course)	3	WRIT 101 Writing Seminar I or WRIT 201	3
Math 141 Precalculus	3	BIOL 222 General Biology II	4
BIOL 220 General Biology I	4	CHEM 235 General Chemistry II	3
CHEM 233 General Chemistry I	3	CHEM 236 General Chemistry II Lab	1
CHEM 234 General Chemistry I Lab	1	PSYCH 101 General Psychology**	3
Total	14	Total	14
Sophomore Year - Begin to explore internship or study abroad opportunities			
Fall:		Spring:	
Writ 102 Writing Seminar II (or elective course if WRIT 201 was taken)	3	DS Course	3
SOC 101 Introduction to Sociology**	3	DS Course	3
CHEM 317 Organic Chemistry I	3	CHEM 319 Organic Chemistry II	3
CHEM 318 Organic Chemistry I Lab	2	CHEM 320 Organic Chemistry II Lab	2
DS Course/Electives **	3	BIOL 315 Cellular and Molecular Biology	4
Total	14	Total	15
Junior Year- Meet with Career Services or your Advisor to begin exploring graduate school and/or job market opportunities			
Fall:		Spring:	
DS Course/Electives **	3	AIP Course	3
Elective/Minor Course	3	AIP Course	3
Elective/Minor Course	3	DS Course/Electives **	3
PHYS 261 General Physics I	4	PHYS 262 General Physics II	4
BIOL/MATH 218 Biostatistics	3	Elective/Minor Course	3
Total	16	Total	16
Senior Year- Review your graduation requirements; begin applying for jobs and/or graduate school			
Fall:		Spring:	
AIP Course	3	AIP Course	3
AIP Course	3	AIP Course	3
***BIOL/CHEM 441 Biochemistry	4	Elective/Minor Course	3
*Minor/elective/science research	3	Elective/Minor Course	3
Elective/Minor Course	3	*Minor/elective/science research	3
Total	16	Total	15

Important Notes:

This plan may be subject to change, due to curriculum changes, course availability or advisor modification.

- *Science Research courses (BIOL/CHEM/PHYS 297, 397, 497) are strongly recommended as elective credits.
- **Note that if the student has a minor or a double major, PSYCH 101 can count as DS4 and SOC 101 can count as DS5
- *** BIOL 441 is at times offered in Spring. Check with your advisor.

