Major Progress Tracker: **NEW Biochemistry Major** (effective April 2022)

Name		PS#		Date	
TARGET GRADIIATION DATE:					

BIOSC COURSES						
You must earn a grade of <u>C or higher</u> in all Biology courses						
Core Courses	Cr	Grade	Notes			
005X Foundations Bio Lab 1	1					
006X Foundations Bio Lab 2	1					
0150 Foundations Bio 1 (UHC0155)	3					
0160 Foundations Bio 2 (UHC0165)	3					
0350 Genetics	3					
1810 ⁺ Macromolec. Struc/Func (F)	3					
1820 ⁺ Metabolic Pathways (Sp)	3					
1830 Biochemistry Lab (Sp)	2					
1940 Molecular Biology (F)	3					
1470* Biophysical Chemistry (Sp)	3					
Electives	Cr	Grade	Notes			
(Elective #1)°	3					
(Elective #2)°	3					
(Elective Lab)°	1					
1581 or 1831# (WRIT)	1					
Capstone	Cr	Grade	Notes			
1580 Biochemistry Seminar (Sp)	1					

NOTES						
Color coding	FALL ONLY	SPRING ONLY				
^o Electives	See next page for approved courses					
+Biochemistry	BIOSC 1810+1820 = Biochemistry,					
	DO NOT take BIOSC1000					
*BIOSC 1470 Substitute	CHEM 1410 & 1420 (6 Cr) can substitute for 1470					
#Writing Practicum	BIOSC 1581 must be	BIOSC 1831 must be				
	taken concurrently	taken concurrently with				
	with BIOSC 1580	BIOSC 1830				

General Education Requirements (Fall 2018 & later)						
Wrkshp Comp Sem in Comp						
Writ #1 Writ #2(in BIOSC)						
Algebra Quant Formal Reas						
2nd Language						
Diversity Course The Diversity course may be used to fulfill another General Education Requirement.						
<u>Division Requirements (Humanities, Arts, Social Sciences, Natural Sciences)</u>						
Literature						
The Arts						
Creative Work						
Philosophical Thinking/Ethics						
Social Science						
Historical Analysis						
Natural Sciences <u>Fulfilled by Major</u>						
Global Awareness & Cultural Understanding						
Global Issues						
Geographic Region						
Cross-Cultural Awareness						

Co-req GPA

See p.2 for GPA calculation details

BIOSC GPA

CO-REQUISITES You must average a 2.000 GPA in your co-requisite courses.											
								CHEMISTRY			ı
CHEM #	Cr	Grade	Notes	COURSE #	Cr	Grade	Notes	PHYS #	Cr	Grade	Notes
0110 Gen Chem 1	4			0220 Calc 1	4			0110 Physics 1 (alg)	3		
0120 Gen Chem 2	4			0230 Calc 2	4			0111 Physics 2 (alg)	3		
0310 Org Chem 1	3			MATH 0235 = MATH 0220 + 0230			0174 Physics 1 (calc)	4			
0320 Org Chem 2	3						0175 Physics 2 (calc)	4			
0345/0745 Org Chem Lab	2							0212 or 0219 (lab)+	2		
								*Lab is not needed for medical and some hea			

120

TOTAL credits required for degree

Date

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Note on Major Timeline

This major is designed to be completed in 4 academic years. Specific course sequencing cannot be changed. If you are looking for a major that can be completed in fewer than 4 academic years, we offer a BS in Biological Sciences which is much more flexible in course sequencing. Occasionally a student bringing in transfer credit may have a different timeline; please see a Bio Advisor to discuss.

Biochemistry Elective Options

Course offerings and timings may vary from year to year.

Check the Downloadable Master Course List on this page for up-to-date info.

LECTURES							
BIOSC#	Course Name	Pre-req	Cr				
1070	Honors Human Physiology	BIOSC 0160 + CHEM 0120	3				
1120	Biostatistics	STAT 1000	3				
1130	Evolution	BIOSC 0350	3				
1250	Human Physiology	BIOSC 0160 + CHEM 0120	3				
1275	Genomics	BIOSC 0350	3				
1280	Microbial Genetics	BIOSC 0350 + 1850	3				
1455	Human Endocrinology	BIOSC 1250	3				
1500	Cell Biology	BIOSC 1000 or 1810	3				
1520	Developmental Biology	BIOSC 0350	3				
1540	Computational Biology	BIOSC 0160	3				
1730	Virology	BIOSC 0350 + 1000/1810 + 1850	3				
1760	Immunology	BIOSC 0350, suggest 1000/1810	3				
1850	Microbiology	BIOSC 0160	3				
1865	Microbial Physiology	BIOSC 0350 + 1000/1810	3				
1945	Advance Molecular Biology	BIOSC 1940	3				
CHEM 1830	Synthetic Biology	BIOSC 1000 or 1810	3				
LABS							
BIOSC #	Course Name	Pre-req	Cr				
0351	Genetics Lab	BIOSC 006X, (c)0350	1				
0352	Intro to Molec. Genetics Lab	BIOSC 006X, 0350	1				
1285	Genomics Lab	BIOSC 006X, 0350	1				
1510	Cell Biology Lab	BIOSC 006X, (c)1500	1				
1530	Developmental Bio Lab	BIOSC 006X, (c)1520	1				
1855	Intro to Microbiology Lab	BIOSC 006X, (c)1850	1				

BIOSC 1690 and 1900-1909 are NOT usable as elective credits for the major.

Grade and GPA Requirements:

- a) You must have a grade of "C" or better in your 32 credits of Biology courses for the BIOSC major this means no C- or lower in a BIOSC course will be allowed for the major. However, a C-, D+, D, D- can count towards your total 120 credits for the bachelor's degree, and is averaged into your BIOSC GPA.
- b) AND an overall BIOSC GPA of 2.000 or better (32 plus any extra BIOSC credits)
- c) AND your <u>corequisite GPA (chem, math, phys)</u> must *average* to 2.000 or better. [Thus, a grade lower than C in Math, Chemistry or Physics can be used if the co-req GPA still averages to 2.000. See **exceptions** below.]
 - Exceptions:
 - i. Students must earn a grade of C (not C-) or better in CHEM 0110 and CHEM 0120 for the major.
 - ii. Students must earn a grade of C (not C-) or better in PHYS 0110/0174 to enroll in PHYS 0111/0175.
 - iii. Students must earn a grade of C (not C-) or better in MATH 0220 to enroll in MATH 0230.
- d) To receive the **chemistry minor**, you must earn <u>at least</u> a 2.000 average GPA in the corequisite chemistry courses and BIOSC 1810, AND at least half of the chemistry credits must be earned at the Pittsburgh Campus. Only CHEM 0110 and CHEM 0120 can be taken on a S/NC basis, all other classes for the chemistry minor must be taken for a letter grade.

Calculating your GPA - The Bio advisors have a GPA calculator spreadsheet – ask and we'll send it to you.