

THOMAS JEFFERSON UNIVERSITY  
BACHELOR OF SCIENCE: BIOCHEMISTRY

2022-2023

Name \_\_\_\_\_

ID# \_\_\_\_\_

**LEVEL I (FIRST YEAR) – 32 credits**

(Prerequisite) Cr Sem. Grade TR Equiv.

**Hallmarks Core Courses – 19 credits**

FYS-100	Pathways Seminar (Fall) <small>(Not required for transfer students)</small>		1	<input type="checkbox"/>			
WRIT-101/101G	Writing Seminar I <small>WRITG-100 may only be used to satisfy free elective credits</small>		3	<input type="checkbox"/>			
<b>AMST-114</b>	<b>Topics in American Studies</b>		3	<input type="checkbox"/>			
CHEM-113	Chemistry I Lecture (Fall) <small>(co-req MATH-102 or higher)</small>		3	<input type="checkbox"/>			
CHEM-113L	Chemistry I Lab (Fall) <small>(co-req MATH-102 or higher)</small>		1	<input type="checkbox"/>			
BIOL-103	Biology I Lecture (Fall)		3	<input type="checkbox"/>			
BIOL-103L	Biology I Lab (Fall)		1	<input type="checkbox"/>			
MATH-111	Calculus I (Fall)		4	<input type="checkbox"/>			

**Science Core – 13 credits**

CHEM-114	Chemistry II Lecture (Spring) <small>(CHEM-113)</small>		3	<input type="checkbox"/>			
CHEM-114L	Chemistry II Lab (Spring) <small>(CHEM-113L)</small>		1	<input type="checkbox"/>			
BIOL-104	Biology II Lecture (Spring) <small>(C- or better in BIOL-103)</small>		3	<input type="checkbox"/>			
BIOL-104L	Biology II Lab (Spring) <small>(C- or better in BIOL-103L)</small>		1	<input type="checkbox"/>			
MATH-112	Calculus II (Spring) <small>(MATH-111)</small>		4	<input type="checkbox"/>			
SCI-200	Scientific Research Methods (Fall)		1	<input type="checkbox"/>			

**LEVEL II (SECOND YEAR) – 31-32 credits**

(Prerequisite) Cr Sem. Grade TR Equiv.

**Hallmarks Core Courses – 9-10 credits**

WRIT-20( )	Writing Seminar II: Multimedia Comm. <small>WRIT 202 is for transfer students (4 cr)</small>		3	<input type="checkbox"/>			
ETHIC-2( )	Ethics <small>(WRIT-101 and DBTU-114)</small>		3	<input type="checkbox"/>			
GDIV-2( )	Global Diversity <small>(WRIT-101 and DBTU-114)</small> <small>(includes 101-level World Languages)</small>		3	<input type="checkbox"/>			

**Science Core – 19 credits**

MATH-331	Mathematical Methods (Fall) <small>(MATH-112)</small>		3	<input type="checkbox"/>			
PHYS-201	Physics I Lecture (Fall) <small>(MATH-112)</small>		3	<input type="checkbox"/>			
PHYS-201L	Physics I Lab (Fall) <small>(MATH-112)</small>		1	<input type="checkbox"/>			
PHYS-203	Physics II Lecture (Spring) <small>(PHYS-201/201L)</small>		3	<input type="checkbox"/>			
PHYS-203L	Physics II Lab (Spring) <small>(PHYS-201/201L)</small>		1	<input type="checkbox"/>			
CHEM-201	Organic Chemistry I (Fall) <small>(CHEM-114/114L)</small>		3	<input type="checkbox"/>			
CHEM-201L	Organic Chemistry I Lab (Fall) <small>(CHEM-114/114L)</small>		1	<input type="checkbox"/>			
CHEM-202	Organic Chemistry II (Spring) <small>(CHEM-201/201L)</small>		3	<input type="checkbox"/>			
CHEM-202L	Organic Chemistry II Lab (Spring) <small>(CHEM-201/201L)</small>		1	<input type="checkbox"/>			

**Free Electives - 3 credits**

( )			3	<input type="checkbox"/>			
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**LEVEL III (THIRD YEAR) – 31 - 32 credits**

(Prerequisite) Cr Sem. Grade TR Equiv.

**Hallmarks Core Courses – 12 credits**

ADIV-2( )	American Diversity <small>(WRIT-101 and DBTU-114)</small>		3	<input type="checkbox"/>			
GCIT-2( )	Global Citizenship <small>(WRIT-101 and DBTU-114)</small> <small>(includes 201-level World Languages)</small>		3	<input type="checkbox"/>			
<b>CGIS-300</b>	<b>Contemporary Global Issues</b> <small>(WRIT-201, and GDIV-2xx or GCIT-2xx)</small>		3	<input type="checkbox"/>			
ISEM-3( )	Integrative Seminar <small>(WRIT-201, and GDIV-2xx or GCIT-2xx)</small>		3	<input type="checkbox"/>			

**Science Core – 19 - 20 credits**

BCHM-312	Biochemistry I <small>(CHEM-202/202L)</small>		3	<input type="checkbox"/>			
BCHM-312L	Biochemistry Lab I <small>(CHEM-202/202L)</small>		1	<input type="checkbox"/>			
BCHM-313	Biochemistry II <small>(BCHEM-312)</small>		3	<input type="checkbox"/>			
BCHM-313L	Biochemistry Lab II <small>(BCHEM-312 and 312L)</small>		1	<input type="checkbox"/>			
CHEM-305	Physical Chemistry I (Fall) <small>(CHEM-202/202L, PHYS-203/203L, and pre or co-requisite MATH-1</small>		3	<input type="checkbox"/>			
<b>CHEM 305L</b>	<b>Physical Chemistry I Lab (Fall)</b> <small>(CHEM-202/202L, PHYS-203/203L, and pre or co-requisite MATH-1</small>		1	<input type="checkbox"/>			
CHEM-306	Physical Chemistry II (Spring) <small>(CHEM-305 and pre or co-requisite MATH-331)</small>		3	<input type="checkbox"/>			
<b>CHEM-306L</b>	<b>Physical Chemistry II Lab (Spring)</b> <small>(CHEM-305 and pre or co-requisite MATH-331)</small>		1	<input type="checkbox"/>			

**Advanced Chemistry Electives** (select from the designated electives below)

( ) \_\_\_\_\_ 3-4

**LEVEL IV (FOURTH YEAR) – 29-31 credits**

(Prerequisite) Cr Sem. Grade TR Equiv.

**Hallmarks Core Courses – 3 credits**

PHIL-499 Philosophies of the Good Life 3   
(ETHIC-2XX, ADIV-2XX, GCIT-2XX, GDIV-2XX, DBTG-3XX, Intgtv Sem., Sci Undstg, MATH1XX)

**Science Core – 17-19 credits**

**Chemistry Core**

CHEM-323 Instrumental Methods Analysis (Fall) (CHEM-202/202L) 3   
**CIC CHEM-323L Instrumental Methods Analysis Lab (Fall) (CHEM-202/202L) 1**   
 CHEM-309 Inorganic Chemistry (Spring) (CHEM-306) 3   
**CHEM-309L Inorganic Chemistry Lab (Spring) (CHEM-306) 1**

**Advanced Chemistry Electives** (select from the designated electives below)

( ) \_\_\_\_\_ 3-4   
 ( ) \_\_\_\_\_ 3-4   
 ( ) \_\_\_\_\_ 3

**Free Electives - 9 credits**

( ) \_\_\_\_\_ 3   
 ( ) \_\_\_\_\_ 3   
 ( ) \_\_\_\_\_ 3

**TOTAL CREDITS: 123-127**

**Advanced Biochemistry Electives** (Select four from these designated electives)

BIOL-204/204L (Cell Bio), BIOL-391/392 (Research), CHEM-391/391 (Research) - Cl, SCI-381/381 (Ind Stdy), SCI-300 (Pharmacology), CHEM-405 (Adv Organic), MATH-213 (Calculus III)

**Introductory and Fundamentals Courses: (Fundamental "099" courses do not count toward graduation requirements. However, WRTG-100 and ITXA-100 can be used toward graduation credits in the free electives category.)**

MATH-099 Fundamentals of College Mathematics (must earn C or better) 3

**Surplus credits not used toward degree requirements**

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Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 9 credits must be in the Hallmarks Core in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the Hallmarks Core “menu” of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

**COURSE STATUS:**  = course to take next semester  = course currently being taken  = course completed