

THOMAS JEFFERSON UNIVERSITY
BACHELOR OF SCIENCE: CHEMISTRY

2023-2024

Name _____

ID# _____

LEVEL I (FIRST YEAR) – 32-33 credits

(Prerequisite) Cr Sem. Grade TR Equiv.

Hallmarks Core Courses – 19-20 credits

FYS-100	Pathways Seminar (Fall) (Not required for transfer students)		1	<input type="checkbox"/>	_____	_____	_____
WRIT-101/G/S	Writing Seminar I WRIT-100 may only be used to satisfy free elective credits		3-4	<input type="checkbox"/>	_____	_____	_____
AVIS-101	American Visions		3	<input type="checkbox"/>	_____	_____	_____
CHEM-113	Chemistry I Lecture (Fall)	(pre or co-req MATH-102 or higher)	3	<input type="checkbox"/>	_____	_____	_____
CHEM-113L	Chemistry I Lab (Fall)	(pre or co-req MATH-102 or higher)	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)	(CHEM-113)	3	<input type="checkbox"/>	_____	_____	_____
CHEM-114L	Chemistry II Lab (Spring)	(CHEM-113L)	1	<input type="checkbox"/>	_____	_____	_____
BIOL-104	Biology II Lecture (Spring)	(C- or better in BIOL-103)	3	<input type="checkbox"/>	_____	_____	_____
BIOL-104L	Biology II Lab (Spring)	(C- or better in BIOL-103L)	1	<input type="checkbox"/>	_____	_____	_____
MATH-112	Calculus II (Spring)	(MATH-111)	4	<input type="checkbox"/>	_____	_____	_____
CHEM-1XX	Scientific Research Methods (Fall)		1	<input type="checkbox"/>	_____	_____	_____

LEVEL II (SECOND YEAR) – 31 credits

(Prerequisite) Cr Sem. Grade TR Equiv.

Hallmarks Core Courses – 9 credits

WRIT-201	Writing Seminar II: Multimedia Comm.	(WRIT-101)	3	<input type="checkbox"/>	_____	_____	_____
ETHC-2()	Ethics	(WRIT-101 and AVIS-101)	3	<input type="checkbox"/>	_____	_____	_____
GDIV-2()	Global Diversity (includes 101-level World Languages)	(WRIT-101 and AVIS-101)	3	<input type="checkbox"/>	_____	_____	_____

Science Core – 19 credits

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

General 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	(WRIT-101 and AVIS-101)	3	<input type="checkbox"/>	_____	_____	_____
GCIT-2()	Global Citizenship (includes 201-level World Languages)	(WRIT-101 and AVIS-101)	3	<input type="checkbox"/>	_____	_____	_____
CGIS-300	Contemporary Global Issues	(WRIT-201, and GDIV-2xx or GCIT-2xx)	3	<input type="checkbox"/>	_____	_____	_____
ISEM-3()	Integrative Seminar	(WRIT-201, and GDIV-2xx or GCIT-2xx)	3	<input type="checkbox"/>	_____	_____	_____

Science Core – 19 - 20 credits

BCHM-312	Biochemistry: Proteins (Fall)	(C- or better in BIOL-104/L and C or better in CHEM-202/202L)	3	<input type="checkbox"/>	_____	_____	_____
BCHM-312L	Biochemistry: Proteins Lab (Fall)	(C- or better in BIOL-104/L and C or better in CHEM-202/202L)	1	<input type="checkbox"/>	_____	_____	_____
BCHM-313	Biochemistry: Metabolism (Spring)	(C or better in BCHM 312/312L)	3	<input type="checkbox"/>	_____	_____	_____
BCHM-313L	Biochemistry: Metabolism Lab (Spring)	(C or better in BCHM 312/312L)	1	<input type="checkbox"/>	_____	_____	_____
CHEM-305	Physical Chemistry I (Fall)	(CHEM-202/202L or PHYC-203/203L, and MATH-112)	3	<input type="checkbox"/>	_____	_____	_____
CHEM 305L	Physical Chemistry I Lab (Fall)	(CHEM-202/202L or PHYC-203/203L, and MATH-112)	1	<input type="checkbox"/>	_____	_____	_____
CHEM-306	Physical Chemistry II (Spring)	(CHEM-305/305L)	3	<input type="checkbox"/>	_____	_____	_____
CHEM-306L	Physical Chemistry II Lab (Spring)	(CHEM-305/305L)	1	<input type="checkbox"/>	_____	_____	_____

Advanced Chemistry Electives (select from the designated electives below)

()			3-4	<input type="checkbox"/>	_____	_____	_____
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Hallmarks Core Courses – 3 credits

PHIL-499	Philosophies of the Good Life <small>(CGIS-300, ETHC-2XX, ADIV-2XX, MATH-1XXX, GCIT-2XX, GDIV-2XX, ISEM-3XX, Sci Undstg)</small>	3	<input type="checkbox"/>			
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Science Core – 17-20 credits

Chemistry Core

CHEM-323	Instrumental Methods Analysis (Fall)	(CHEM-202/202L)	3	<input type="checkbox"/>		
CIC CHEM-323L	Instrumental Methods Analysis Lab (Fall)	(CHEM-202/202L)	1	<input type="checkbox"/>		
CHEM-309	Inorganic Chemistry (Spring)	(CHEM-202/202L)	3	<input type="checkbox"/>		
CHEM-309L	Inorganic Chemistry Lab (Spring)	(CHEM-202/202L)	1	<input type="checkbox"/>		

Advanced Chemistry Electives (select from the designated electives below)

()	_____	3-4	<input type="checkbox"/>			
()	_____	3-4	<input type="checkbox"/>			
()	_____	3-4	<input type="checkbox"/>			

General Electives - 9 credits

()	_____	3	<input type="checkbox"/>			
()	_____	3	<input type="checkbox"/>			
()	_____	3	<input type="checkbox"/>			

TOTAL CREDITS: 123-128

Advanced Chemistry Electives (Select four from these designated electives)

BIOL-256/L (Molecular Genetics), BIOL-312 (Biostatistics), CHEM-206/L (Forensic Chem), CHEM-310 (Intro to Pharm. Industry), CHEM-371/L (Spec Topics), CHEM-391/392 (Research) - CI, Chem-405 (Adv Organic), CHEM-410 (Polymer Chem), CHEM-417/L (Env Chem), SCI-381/382 (Ind Stdy), CHEM-3XX (Pharmacology), ENGR-210 (Intro to Materials), MATH-213 (Calc. 3)

Introductory and Fundamentals Courses: (Fundamental "099" courses do not count toward graduation requirements. However, WRIT-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	<input type="checkbox"/>		
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Surplus credits not used toward degree requirements

_____			<input type="checkbox"/>			
_____			<input type="checkbox"/>			
_____			<input type="checkbox"/>			

Please note Thomas Jefferson University residency requirement:
Thomas Jefferson 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 Hallmark courses 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 Hallmark "menu" of options. Please refer to the University catalog for questions regarding curriculum and academic policies.

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