



Temple University College of Science & Technology Associate of Science in Chemistry Notes 1 at Bucks County Community College to the Bachelor of Science in Biochemistry at Temple University (Effective Fall 2019)

Bucks Cour	nty CC Recommended Course		Temple Univ	rersity Equivalent
First Semest		Credits	s First Semest	
CHEM 121	Chemistry I	4	CHEM 1031 AND	General Chemistry I
COLL 101	College Success Seminar	4	CHEM 1033	General Chemistry I Laboratory NT, 0 TR, No Equivalency
COLL 101	English Composition	1	ENG 0802	Analytic Reading And Writing
	Precalculus	3		, ,
MATH 125		4	MATH 1022	Precalculus
	Social Sciences Note 2	3		Dependent upon course selection Note 6
	Semester Total:	15		
Second Sem	ester		Second Semester	
CHEM 122	Chemistry II	4	CHEM 1032 AND CHEM 1034	General Chemistry II General Chemistry II Laboratory
COMP 111	English Composition II	3	ENG L***	English Lower Level Elective
MATH 140	Calculus I	4	MATH L***	Lower Level Elective Note 3
COMM 110	Effective Speaking	3	CSI 1111	Public Speaking
	Semester Total:	14		
Third Semes	ter		Third Semes	ter
CHEM 221	Organic Chemistry I	5	CHEM 2201 AND CHEM 2203	Organic Chemistry I Organic Chemistry I Laboratory
PHYS 121	Physics I	4	PHYS 1061	Elementary Classical Physics I
	Electives Note 3 Recommend MATH 141: Calculus II	4	MATH L***	Lower Level Elective Note 3
	Chemistry Elective Note 4 Recommend BIOL 121: Biological Principles I	4	BIOL 2112	Introduction to Cellular and Molecular Biology
	Semester Total:	17		
Fourth Seme	ester		Fourth Seme	ster
CHEM 222	Organic Chemistry II	5	CHEM 2202 AND CHEM 2204	Organic Chemistry II Organic Chemistry II Laboratory
PHYS 122	Physics II	4	PHYS 1062	Elementary Classical Physics II
	Chemistry Elective Note 5 Recommend BIOL 122: Biological Principles II	4	BIOL 1111	Introduction to Organismal Biology
	Diversity/Arts/Humanities	3		Dependent upon course selection Note 6
	Semester Total:	16		
	Total Credits Taken:	62		

Notes: Students following this plan are under the GenEd-to-GenEd General Education program.

- 1) Students who transfer to Temple with an A.S. in Chemistry have satisfied the terms of the Temple-Bucks GenEd-to-GenEd transfer agreement and have completed the General Education requirements necessary to graduate from Temple University.
- 2) Students should NOT select COMM 111, MGMT 100, and MUSC 103 as these courses would not count toward the 90 total CST/CLA credits required to graduate with a BS in Biochemistry at Temple.
- 3) Students should select MATH 141: Calculus II as their elective. MATH 141 transfers to Temple as MATH L***. Completion of MATH 140 and MATH 141 in transfer will satisfy MATH 1041 Calculus I and MATH 1042 Calculus II requirements in the BS in Biochemistry major at Temple University via DARS exception. Students who do not complete this course sequence at Bucks will have additional course requirements remaining at Temple and may need additional time to complete the remaining BS in Biochemistry requirements.
- 4) Students should select BIOL 121: Biological Principles I. BIOL 121 transfers to Temple as BIOL 2112: Introduction to Cellular and Molecular Biology. Students transferring without this course may require additional time to degree completion.
- 5) Students should select BIOL 122: Biological Principles II. BIOL 122 transfers to Temple as BIOL 111: Introduction to Organismal Biology and satisfies a major requirement. Students transferring without this course may require additional time to degree completion.
- 6) To see how courses might transfer, consult Temple's Transfer Equivalency Tool: https://tuportal5.temple.edu/apps/tup/Public/TransferRules/ Courses not included in the transfer tool may transfer.





If the suggested classes are successfully completed at Bucks County Community College and an Associate in Science in Chemistry degree is awarded, the remaining four semesters for the **Bachelor of Science in Biochemistry** are as follows:

Remaining Requirements a	at Temple University	
Fifth Semester		Credits
BIOL 3096 (F)	Cell Structure and Function (WI)	4
CHEM 3103	Techniques of Chemical Measurement I	3
CHEM 3105	Introduction to Chemical Research Techniques	1
MATH 2043	Calculus III	4
SCTC 2001	CST Transfer Seminar	1
FREE ELECTIVE	Free Elective	3
	Semester Total:	16
Sixth Semester		
BIOL 2296 (S)	Genetics (WI)	4
CHEM 3405 (S)	Physical Chemistry of Biomolecules	3
CHEM 4401	Biochemistry I	3
FREE ELECTIVE	Free Elective	6
	Semester Total:	16
Seventh Semester		
BIOL 3324 (F)	Molecular Biology	3
BIOL 4376 (F)	General Biochemistry II	3
BIOCHEMISTRY ELECTIVE	Chemistry Department Biochemistry Elective (Residency) Note c	3-5
FREE ELECTIVE	Free Elective	6-4
	Semester Total:	15
Eighth Semester		
BIOL 4344 (S)	Research Techniques in Biochemistry	4
BIOCHEMISTRY ELECTIVE	Biochemistry Elective Course from Approved List	3-4
FREE ELECTIVE	Free Elective	8-7
	Semester Total:	15
	61	
	62	
	redits Completed to Satisfy the Requirements for B.S. in Biochemistry:	123

Notes: Students following this plan are under the GenEd-to-GenEd General Education program.

- a) To earn a CST baccalaureate degree, a student must complete a minimum of 123 credits, including: 90 credits in CST/CLA courses, 45 credits of which must be at the upper level (numbered 2000-4999).
- a) Per the CST Residency Requirement, students must complete at least half of the major requirements at Temple: 10 courses for the major, of which 4 must be in Chemistry and 4 in Biology.
- b) To meet the CST Residency Requirement, one Biochemistry Elective must be selected from the Chemistry department.
- c) Temple University requires that all undergraduate degree candidates complete 45 hours of the last 60 hours of the degree or program as matriculated students at Temple University. If a matriculated student previously took Temple courses on a nonmatriculated basis, those courses are counted towards this requirement.
- d) Per Temple's Transfer Policy for <u>Permission to Complete a Course at Another Institution after Matriculation</u>, students who transfer 60 credits or more cannot receive permissions to transfer additional course work.

Inquiries about the undergraduate program and application are handled through the Office of Admissions (Phone: 215-204-4900; E-mail: admissions@temple.edu)

Inquiries about the B.S. in *Biochemistry* or specific course requirements can be directed to The College of Science & Technology Center for Academic Advising & Professional Development at cstadv@temple.edu