

Carroll Community College
A.S. Transfer Plan Biochemistry

A.S. in Biology to B.S. in Biochemistry

This transfer plan is intended for students pursuing an **A.S. in Biology at Carroll Community College** who are interested in pursuing a **B.S. in Biochemistry** at Stevenson University. The equivalencies below demonstrate how a student can meet both the requirements of the associate degree and prepare for a seamless transfer to Stevenson. Any student who enters Stevenson with an A.A. or A.S. degree will have completed all general education requirements with the exception of composition II if not taken at the community college. Please note:

- Only courses that have course equivalencies are displayed. This guide does not show all transferable courses from this college. It also does not display all Stevenson University courses that will fulfill a specific requirement.
- Program requirements must be completed with a grade of “C” or better, and general education courses must be passed with a grade of “D” or better, with the exception of college composition, which must be passed with a “C-” — 70 or higher.
- Stevenson University will accept up to 70 credits from 2-year institutions. Up to 90 credits can be applied to degree requirements from a combination of 2-year institutions, 4-year institutions, and non-direct classroom instruction (including CLEP, AP, and other nationally recognized standardized examination scores). For additional information about credit transfer, please see: <http://www.stevenson.edu/admissions-aid/getting-started/transfer-students/transfer-credit-evaluation/>
- For scholarship information please see the “Paying for College” page on: <http://www.stevenson.edu/transfer>
- Transfer plans are intended to be used as planning tools. If you need additional assistance in selecting courses to take prior to transferring to Stevenson University, contact Stevenson Admissions at 443-352-4450.

Community College Degree Requirements	Stevenson Equivalency	Category	Credits Transferred
BIOL-101 Fundamentals of Biology 1	BIO 113/L General Biology I: Cell Biology and Genetics	Program Requirement	4
BIOL-202 Fundamentals of Biology 2	BIO 115/L General Biology III: Ecology/Evolution Lab	Program Requirement	4
BIOL-215 Microbiology	BIO 203 Microbiology	Biochemistry Group 2 Elective	4
BIOL-240 Genetics	BIO 230 Genetics	Program Requirement	4
CHEM-201 Organic Chemistry 1	CHEM 210/L Organic Chemistry I	Program Requirement	5
CHEM-202 Organic Chemistry 2	CHEM 211/L Organic Chemistry II	Program Requirement	5
MATH 135 Calculus of a Single Variable I	MATH 220 Calculus	Program Requirement	4
ENGL 101 College Writing	ENG 151 College Writing I	General Education	3
ENGL 102 Writing About Literature	ENG 152 College Writing II	General Education	3

Community College Degree Requirements	Stevenson Equivalency	Category	Credits Transferred
Arts & Humanities <i>SU Recommends COMM 105</i>	Humanities Course Public Speaking	General Education General Education Communication Intensive Requirement	6
Physical and Biological Sciences: CHEM 105 Principles of Chemistry 1 CHEM 106 Principles of Chemistry 2	CHEM 115/L General Chemistry I with Lab CHEM 116/L General Chemistry II with Lab	General Education Scientific Reasoning and Scientific Reasoning Lab	8
Mathematics: MATH 123 Precalculus/College Algebra or MATH 130 Precalculus	MATH 137 College Algebra or MATH 147TR Precalculus	General Education Quantitative Literacy	4
Social and Behavioral Sciences: SU recommends 6 credits from two different disciplines	Social Sciences	General Education – Social Sciences SEE Requirement	6
Total	60 Credits Please note: A minimum of 60 credits are needed for the associate degree		

Remaining Courses to be taken at Stevenson

Students who complete the plan above including all recommended courses and earn the A.S. in Biology will take the following courses at Stevenson to meet the B.S. in Biochemistry requirements. Students who transfer before completing the associate degree may have more general education and program requirements to take and fewer free electives.

General Education Requirements (0 credits)

Major Requirements (42-45 credits)

BIOCH 327	Biochemistry	3 credits
BIOCH 345L	Integrative Laboratory I	2 credits
BIOCH 427	Advanced Biochemistry	3 credits
BIOCH 470	Capstone Internship	3 credits
	or	
BIOCH 417	Capstone Internship	6 credits
BIOCH 475	Capstone Seminar	3 credits
CHEM 213	Digital Information Literacy or Chemistry	1 credit
CHEM 313	Career Connections in Chemistry	1 credit
PHYS 210	General Physics I	4 credits
	or	
PHYS 215	General Physics I with Calculus	4 credits
PHYS 211	General Physics II	4 credits
	or	
PHYS 216	General Physics II with Calculus	4 credits
SCI 215	Writing in the Sciences	3 credits

Group 1 Electives
Group 2 Electives

6-7 credits
2-8 credits

Additional Credits Needed: 15-18 credits of general electives

Total credits to be taken at SU: 60

Suggested Course Sequence

YEAR 3				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	SCI 215 Writing in the Sciences 200 level Writing Intensive (WI)	3	BIOCH 427 Advanced Biochemistry	3
	CHEM 213 Digital Information Literacy for Chemistry	1	BIO/CHEM Group I or Group II Elective	2-4
	BIOCH 327 Biochemistry	3	BIO/CHEM Group I or Group II Elective	2-4
	BIOCH 345L Integrative lab I	1	General Elective	3
	PHYS 210 General Physics I or PHYS 215 General Physics I with Calculus	4	PHYS 211 General Physics II or PHYS 216 General Physics II with Calculus	4
	CHEM 313 Career Connections in Chemistry	1		
	General Elective	3		
CREDITS	16 CREDITS		14-17 CREDITS	
YEAR 4				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	BIOCH 470 OR 471 Capstone Internship	3/6	BIO/CHEM Group I or Group II Elective	2-4
	BIOCH 475 Capstone Seminar 300/400 Level Writing Intensive (WI)	3	BIO/CHEM Group I or Group II Elective	2-4
	BIO/CHEM Group I or Group II Elective	2-4	General Elective	3
	General Elective	3	General Elective	3
			General Elective, if needed	3
CREDITS	14-16 CREDITS		13-17 CREDITS	

Signed 7/13/2022