

BIOCHEMISTRY STUDIES - CSCU TRANSFER DEGREE, AA

Program code: BIOC-AA-TAP

Location: Asnuntuck, Capital, Gateway, Housatonic, Manchester, Middlesex, Naugatuck Valley, Northwestern, Norwalk, Quinebaug Valley, Three Rivers, Tunxis

Program Description

Biochemistry is the study of the chemical processes which occur within and between living organisms. The study of biochemistry deals with the structures, functions and interactions of macromolecules: lipids, nucleic acids, carbohydrates, and proteins. The following program provides a firm grounding in mathematics, physics, biology, and chemistry.

Learning Outcomes

Students completing the CSCU Biochemistry Pathway and earning an Associate Degree will be able to:

1. Understand and apply a chemical knowledge base to biological phenomena, including theories of chemical bonding and reactivity.
2. Communicate scientific knowledge in written and verbal formats.
3. Demonstrate technical competencies in the application of laboratory skills and safety.
4. Interpret, use and apply scientific literature in the context of biochemical problems.

Students who earn an Associate in Arts degree in Biochemistry Studies from Connecticut State Community College can transfer their degree to either the Central Connecticut State University (CCSU), Eastern Connecticut State University (ECSU), Southern Connecticut State University (SCSU) or Western Connecticut State University (WCSU). Students will be credited as meeting the General Education requirements. Students must remain in the corresponding Biochemistry major program for the following bachelor's degrees:

- CCSU: Biochemistry - American Chemical Society (ACS) Certified, B.S.
- CCSU: Biochemistry - General Track, B.S.
- ECSU: Biochemistry, B.S.
- SCSU: Chemistry - Concentration: Biochemistry, B.S.
- WCSU: Chemistry - Biochemistry Option, ACS Approved, B.S.
- WCSU: Chemistry - Biochemistry Option, non-ACS Approved, B.S.

Full-time students may complete this program in two years. Most courses may not be taken online and some courses are offered during summer sessions. Students who transfer should be able to graduate in 2 years. This assumes a student follows the degree pathway plan created for the student at the time of admission to a four-year school listed above. There are laboratory fees associated with most program courses.

Degree Requirements

Code	Title	Credits
Framework Courses		
ENG 1010	Composition	3
MATH 1610	Precalculus	4
Elective ARHX - Arts & Humanities Course		3-4

CHEM 1210	General Chemistry I	4
Elective SBSX - Social / Behavioral Science Course		3
Elective WRIX - Written Communication II Course		3
CHEM 1220	General Chemistry II	4
Elective HISX - Historical Knowledge Course		3
Elective ORAX - Oral Communication Course		3
CCS 1001	College and Career Success	3
Pathway Courses		
BIO 1210	General Biology I	4
MATH 2600	Calculus I	4
CHEM 2310	Organic Chemistry I	4
CHEM 2320	Organic Chemistry II	4
PHYS 2201	Calculus-Based Physics I	4
BIO 2350	Microbiology	4
BIO 1220	General Biology II ¹	4
or PHYS 2202	Calculus-Based Physics II	
Total Credits		61-62

¹ BIO 1220 General Biology II is recommended for students who wish to transfer to SCSU and WCSU, otherwise students should take PHYS 2202 Calculus-Based Physics II.