

Pathway - Biochemistry (ACS)

Southwestern Illinois Community College

Associate of Science

Fall Year 1

SWIC Course		Hours
ENG 101	Rhetoric and Comp I	3
BIOL 101	Principles of Biology I	4
CHEM 105	General Chemistry I	5
MATH 203	Analytical Geometry & Calc I	5
Total		17

Spring Year 1

SWIC Course		Hours
ENG 102	Rhetoric and Comp II	3
BIOL 102	Principles of Biology II	4
CHEM 106	General Chemistry II	5
MATH 204	Analytical Geometry & Calc II	5
Total		17

Fall Year 2

SWIC Course		Hours
¹ IAI FA	IAI Fine Arts	3
CHEM 201	Organic Chemistry I	5
COMM 151	Public Speaking	3
BIOL 270	Genetics	4
HES 1XX	Human Well Being	2
Total		17

Spring Year 2

SWIC Course		Hours
CHEM 202	Organic Chemistry II	5
¹ IAI HUM	Humanities	3
¹ IAI Social Science	Social Science (ERGU Recomm)	3
¹ IAI Behavioral	Behavioral Science	3
Total		14

Completion of Associate of Science degree 65

¹ Students will need to complete one Human Relations course and one Non-Western for Associate Degree. Please see Partnership advisor for more information.

Southern Illinois University Edwardsville

Bachelor of Science

Fall Year 3

SIUE Course		Hours
CHEM 331	Quantitative Analytical Chem	3
CHEM 335	Quant Lab	1
CHEM 361a	Physical Chemistry	3
CHEM 365a	Physical Chemistry Lab	2
CHEM 300	Professionalism in Science	1
CHEM 451a	Biochemistry	3
PHYS 151/151L	University Physics I	5

Total 18

Spring Year 3

SIUE Course		Hours
CHEM 361b	Physical Chemistry	3
CHEM 365b	Physical Chemistry Lab	1
CHEM 396	Introduction to Research	2
CHEM 451b	Biochemistry II	3
PHYS 152/152L	University Physics II	5

Total 17

Fall Year 4

SIUE Course		Hours
CHEM 411	Inorganic Chemistry	3
CHEM 415	Inorganic Chemistry Lab	2
CHEM 451c	Biochemistry III	3
BIOL 319	Cell and Molecular Biology	4
CHEM 496	Chemical Problems	2

Total 14

Spring Year 4

SIUE Course		Hours
CHEM 431	Instrumental Analysis	3
CHEM 435	Instrumental Analysis Lab	1
CHEM 455	Experimental Biochem	2
CHEM 499	Senior Assignment	0
STAT 244/380	Statistics	3
IS	Interdisciplinary Studies	3

Total 12

Completion of Bachelor of Science degree 126

*Transfer students should have a 2.6 GPA in science and mathematics courses, and a 2.5 average in courses taken at other colleges or universities.

*A course that satisfies both the ERGU and EREG requirement will only be counted as one and not both.

About the American Chemical Society (ACS): The ACS is a self-governed individual membership organization that consists of members at all degree levels and all fields of chemistry. The organization provides a broad range of opportunities for peer interaction and career development, regardless of professional or scientific interests.

*Students must complete 50% or more of degree requirements at SIUE.