

Pathway - Biochemistry (ACS)

Southwestern Illinois College

Associate in 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
IAI Fine Arts ¹	IAI Fine Arts	3
CHEM 201	Organic Chemistry I	5
COMM 151	Public Speaking	3
PHYS 204	Physics - Mechanics	4
HES 1XX	Human Well Being	2
Total		17

Spring Year 2

SWIC Course		Hours
CHEM 202	Organic Chemistry II	5
IAI Humanities ¹	IAI Humanities	3
IAI Social Science ¹	IAI Social Science	3
IAI Behavioral ¹	IAI Behavioral Science	3
Total		14

Completion of Associate in Science degree 65

¹Students will need to complete one Human Relations course and one Non-Western course for AS degree.

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

Southern Illinois University Edwardsville

Bachelor of Science

Summer Year 2

SIUE Course		Hours
PHYS 152/152L	University Physics II/Lab	5
Total		5

Fall Year 3

SIUE Course		Hours
CHEM 331	Quantitative Analytical Chem	3
CHEM 335	Quantitative Analytical Lab	1
CHEM 361A	Physical Chemistry	3
CHEM 365A	Physical Chemistry Lab	2
CHEM 300	Professionalism in Science	1
CHEM 451A	Biochemistry	3
Total		13

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
BIOL 220	Genetics	4
Total		13

Fall Year 4

SIUE Course		Hours
CHEM 411	Inorganic Chemistry	3
CHEM 415	Inorganic Chemistry Lab	2
CHEM 451C	Biochemistry III	3
CHEM 496	Chemical Problems	2
STAT 244 or 380	Statistics or Stats for Applications	3
Elective	Elective	3
Total		16

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
BIOL 319	Cell and Molecular Biology	4
IS XXX	Interdisciplinary Studies	3
Total		13

Completion of Bachelor of Science degree 125

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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.