

Pathway Chemistry - Biochemistry - Focus in Biology

Lincoln Land Community College

Associate in Science

Fall Year 1

LLCC Course		Hours
BIO 111	Principles of Biology I	4
CHE 101	General Chemistry I	4
EGL 101	Composition I	3
Fine Arts	IAI Fine Arts	3
Total		14

Spring Year 1

LLCC Course		Hours
BIO 112	Principles of Biology II	4
CHE 102	General Chemistry II	4
EGL 102	Composition II	3
MAT 141	Introductory Statistics	4
Total		15

Fall Year 2

LLCC Course		Hours
CHE 201	Organic Chemistry I	5
CMN 101	Public Speaking Fundamentals	3
Social Science	IAI Social Science	3
	Program Course Selection	4
Total		15

Spring Year 2

LLCC Course		Hours
CHE 202	Organic Chemistry II	5
MAT 131	Calculus & Analytic Geometry I	5
Social Science	IAI Social Science	3
Humanities	IAI Humanities	3
Total		16

Completion of Associate in Science degree 60

Southern Illinois University Edwardsville

Bachelor of Science

Fall Year 3

SIUE Course		Hours
CHEM 331	Quantitative Analytical Chem	3
CHEM 335	Quant Lab	1
BIOL 220	Genetics	4
CHEM 300	Professionalism in Science	1
CHEM 451a	Biochemistry	3
PHYS 131/131L	College Physics I	5
Total		17

Spring Year 3

SIUE Course		Hours
CHEM 451b	Biochemistry	3
CHEM 455	Biochemistry Lab	2
CHEM 410	Bio-Inorganic Chemistry	3
BIOL 319	Cell and Molecular Biology	4
PHYS 132/132L	College Physics II	5
Total		17

Fall Year 4

SIUE Course		Hours
CHEM 451c	Biochemistry	3
CHEM 461a	Biophysical Chemistry I	3
CHEM 465	Biophysical Chemistry Lab	2
CHEM XXX	CHEM elective	2
CHEM XXX	CHEM elective	2
Total		12

Spring Year 4

SIUE Course		Hours
CHEM 461B	Biophysical Chemistry II	3
CHEM 431	Instrumental Analysis	3
CHEM 435	Instrumental Analysis Lab	1
CHEM 499	Senior Assignment	0
STAT 244	Statistics	4
IS	Interdisciplinary Studies	3
Total		14

Completion of Bachelor of Science degree 120

** Students must complete 50% or more of SIUE degree requirements at SIUE (120 hours are required for graduation).