

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 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).