

## Pathway Chemistry - Biochemistry - Focus in Chemistry

### Lincoln Land Community College

#### Associate in Science

##### Fall Year 1

LLCC Course		Hours
CMN 101	Public Speaking Fundamentals	3
CHE 101	General Chemistry I	4
EGL 101	Composition I	3
MAT 131	Calculus & Analytic Geometry I	5
<b>Total</b>		<b>15</b>

##### Spring Year 1

LLCC Course		Hours
CHE 102	General Chemistry II	4
EGL 102	Composition II	3
MAT 132	Calculus & Analytic Geometry II	5
PHY 101 or 201	General Physics I or Physics I	4
<b>Total</b>		<b>16</b>

##### Fall Year 2

LLCC Course		Hours
CHE 201	Organic Chemistry I	5
PHY 102 or 202	General Physics II or Physics II	4
Fine Arts	IAI Fine Arts	3
Social Science	IAI Social Science	3
<b>Total</b>		<b>15</b>

##### Spring Year 2

LLCC Course		Hours
BIO 111	Principles of Biology I	4
CHE 202	Organic Chemistry II	5
Social Science	IAI Social Science	3
Humanities	IAI Humanities	3
<b>Total</b>		<b>15</b>

**Completion of Associate in Science degree** **61**

### 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 451a	Biochemistry	3
CHEM 300	Professionalism in Science	1
BIOL 151	Intro to Biological Sciences II	4
<b>Total</b>		<b>12</b>

##### Spring Year 3

SIUE Course		Hours
CHEM 451b	Biochemistry	3
CHEM 455	Biochemistry Lab	2
CHEM XXX	CHEM elective	2
CHEM 410	Bio-Inorganic Chemistry	3
BIOL 220	Genetics	4
Elective	Elective	3
<b>Total</b>		<b>17</b>

##### Fall Year 4

SIUE Course		Hours
CHEM 410	Bio-Inorganic Chemistry	3
CHEM 451c	Biochemistry	3
CHEM 461a	Biophysical Chemistry I	3
CHEM 465	Biophysical Chemistry Lab	2
CHEM XXX	CHEM elective	2
BIOL 319	Cell and Molecular Biology	4
<b>Total</b>		<b>17</b>

##### 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
<b>Total</b>		<b>14</b>

**Completion of Bachelor of Science degree** **121**

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