

## Pathway - Mathematics- Applied

### Southwestern Illinois College Associate in Science Degree

#### Fall Year 1

SWIC Course	Hours
ENG 101 Rhetoric and Composition I	3
MATH 203 <sup>2</sup> Analytic Geometry & Calculus I	5
IAI HUM <sup>1</sup> IAI Humanities	3
IAI SS <sup>1</sup> IAI Social Science	3
HES XXX Human Well Being	2
<b>Total</b>	<b>16</b>

#### Spring Year 1

SWIC Course	Hours
ENG 102 Rhetoric and Composition II	3
MATH 204 <sup>2</sup> Analytic Geometry & Calculus II	5
IAI Beh <sup>1</sup> IAI Behavioral Science	3
PHYS 204 <sup>2</sup> Physics- Mechanics	4
<b>Total</b>	<b>15</b>

#### Fall Year 2

SWIC Course	Hours
COMM 151 Fund. Of Public Speaking	3
MATH 205 <sup>2</sup> Analytic Geometry & Calculus III	4
EILE XXX Elective	3
ELE XXX Elective	3
PHYS 205 <sup>2</sup> Physics- Heat, Elec & Magnetism	4
<b>Total</b>	<b>17</b>

#### Spring Year 2

SWIC Course	Hours
MATH 290 <sup>2</sup> Differential Equations	3
IAI LS <sup>2</sup> IAI Life Science w/Lab	4
ELE XXX <sup>3</sup> Elective(s)	3
IAI FA <sup>1</sup> IAI Fine Arts	3
<b>Total</b>	<b>13</b>

#### Summer Year 2

SWIC Course	Hours
MATH 210 <sup>2,3</sup> Computer Prog. For Engineers	3
<b>Total</b>	<b>3</b>

**Associate in Science Degree Total** **64**

<sup>1</sup>Students need to complete one Human Relations and one Non-Western course. Please see advisor.

<sup>2</sup>All Math/Science courses require a grade of "C" or better.

<sup>3</sup>MATH 210 offered summer term only.

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

### Southern Illinois University Edwardsville Bachelor of Science Degree

#### Fall Year 3

SIUE Course	Hours
MATH 223 Logic and Mathematical Reasoning	4
ELE XXX Elective	3
MATH 321 Linear Algebra I	3
ELE XXX Science or Engineering Elective	3
ELE XXX Elective	3
<b>Total</b>	<b>16</b>

#### Spring Year 3

SIUE Course	Hours
MATH 350 Introduction to Analysis	4
MATH 464 Partial Differential Equations	3
ELE XXX Science Elective	3
MATH XXX Math, Statistics, or OR Elective	3
IS XXX Interdisciplinary Course	3
<b>Total</b>	<b>16</b>

#### Fall Year 4

SIUE Course	Hours
MATH 498 Senior Seminar	2
MATH 465 Numerical Analysis	3
MATH XXX Math, Statistics, or OR Elective	3
ELE XXX Electives	6
<b>Total</b>	<b>14</b>

#### Spring Year 4

SIUE Course	Hours
MATH 499 Senior Project	2
MATH 451 Intro to Complex Analysis	3
MATH 466 Numer Linear w/Applications	3
ELE XXX Science or Engineering Elective	3
MATH XXX Math, Statistics, or OR Elective	3
<b>Total</b>	<b>14</b>

**Bachelor of Science Degree Total** **124**

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