

## Pathway - Mathematics- Applied

### Southwestern Illinois College Associate in Science Degree

#### Fall Year 1

SWIC Course		Hours
ENG 101	Rhetoric and Composition I	3
MATH203 <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
MATH204 <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
MATH205 <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
MATH210 <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.

MATH 210 offered summer term only.

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

### 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**