

**Southwestern Illinois College  
Pathway - Mathematics - Actuarial Science**

**Southwestern Illinois College  
Associate in Arts 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
ECON 201 Principles of Macroeconomics	3
COMM 151 Fund. Of Public Speaking	3
<b>Total</b>	<b>17</b>

**Spring Year 1**

SWIC Course	Hours
ENG 102 Rhetoric and Composition II	3
MATH 204 <sup>2</sup> Analytic Geometry & Calculus II	5
ECON 202 Principles of Microeconomics	3
PHYS 204 <sup>2</sup> Physics- Mechanics	4
<b>Total</b>	<b>15</b>

**Fall Year 2**

SWIC Course	Hours
HES XXX Human Well Being	2
MATH 205 <sup>2</sup> Analytic Geometry & Calculus III	4
IAI LS <sup>2</sup> IAI Life Science w/Lab	4
ACCT 110 Financial Accounting	4
IAI Hum/FA <sup>1</sup> Humanities or Fine Arts	3
<b>Total</b>	<b>17</b>

**Spring Year 2**

SWIC Course	Hours
MATH 290 <sup>2</sup> Differential Equations	3
C/H/SS/BS <sup>1</sup> IAI COM/ HUM/SS/BS	3
IAI BS <sup>1</sup> IAI Behavioral Science	3
ELE Elective	3
IAI FA <sup>1</sup> IAI Fine Arts	3
<b>Total</b>	<b>15</b>

**Associate in Arts Degree Total**

**64**

**Southern Illinois University Edwardsville  
Bachelor of Science Degree  
Fall Year 3**

SIUE Course	Hours
MATH 223 Logic and Mathematical Reasoning	4
MATH 340 Theory of Interest	3
STAT 480a Intro to Mathematical Stats	3
MATH 321 Linear Algebra I	3
ACCT 210 Managerial Accounting	3
<b>Total</b>	<b>16</b>

**Spring Year 3**

SIUE Course	Hours
MATH 350 Introduction to Analysis	4
STAT 480b Intro to Mathematical Stats	3
STAT 486a Actuarial Mathematics	3
CS 145 Intro to Computing I	3
FIN 320 Financial Mgmt&Decision Making	3
<b>Total</b>	<b>16</b>

**Fall Year 4**

SIUE Course	Hours
MATH 498 Senior Seminar	2
FIN 420 Problems in Corporate Finance	3
MATH XXX Math, Statistics, or OR Elective	3
MATH 465 Numerical Analysis	3
IS XXX Interdisciplinary Course	3
<b>Total</b>	<b>14</b>

**Spring Year 4**

SIUE Course	Hours
MATH 499 Senior Project	2
STAT 482 Regression Analysis	3
MATH XXX Math, Statistics, or OR Elective	3
OR 441 Operations Research: Stochastic	3
FIN XXX Finance Elective	3
<b>Total</b>	<b>14</b>

**Bachelor of Science Degree Total**

**124**

<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.

**Students who receive an Actuarial Science Degree will automatically be awarded a Business Administration minor.**

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

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