

**SOUTHERN ILLINOIS UNIVERSITY  
EDWARDSVILLE**

**Pathway Mathematical Studies- Pure Math**

**Lewis and Clark Community College  
Associate in Arts/Science Degree**

**Fall Year 1**

| LCCC Course                                          | Hours     |
|------------------------------------------------------|-----------|
| ENGL 131 First Year English                          | 3         |
| MATH 171 <sup>1</sup> Analytical Geometry & Calculus | 5         |
| IAI HUMN IAI Humanities                              | 3         |
| SPCH 131 Public Speaking                             | 3         |
| <b>Total</b>                                         | <b>14</b> |

**Spring Year 1**

| LCCC Course                                             | Hours     |
|---------------------------------------------------------|-----------|
| ENGL 132 First Year English II                          | 3         |
| MATH 172 <sup>1</sup> Analytical Geometry & Calculus II | 5         |
| IAI SOC BEH IAI Social Behavioral Science               | 3         |
| PHYS 141 <sup>1</sup> General Physics I                 | 5         |
| <b>Total</b>                                            | <b>16</b> |

**Fall Year 2**

| LCCC Course                                              | Hours     |
|----------------------------------------------------------|-----------|
| MATH 271 <sup>1</sup> Analytical Geometry & Calculus III | 4         |
| IAI SOC BEH IAI Social Behavioral Science                | 3         |
| IAI FA IAI Fine Arts                                     | 3         |
| PS/LS <sup>1</sup> Additional Life/Physical Science      | 3         |
| <b>Total</b>                                             | <b>13</b> |

**Spring Year 2**

| LCCC Course                                  | Hours     |
|----------------------------------------------|-----------|
| MATH 272 <sup>1</sup> Differential Equations | 3         |
| IAI HUMN/ FA IAI Humanities/Fine Art         | 3         |
| BIOL 130 Fundamentals of Biological Science  | 4         |
| IAI SOC BEH IAI Social Behavioral Science    | 3         |
| ELEC Electives                               | 4         |
| <b>Total</b>                                 | <b>17</b> |

**Associate in Art/Science Degree Total 60**

<sup>1</sup>All Math/Science courses require a grade of "C" or better.

Students will need to complete one Human Relations course

For the Associate Degree. Please see Partnership advisor.

Students can take an additional LS/PS course to meet the AS, or an additional SS course for the AA.

**Southern Illinois University Edwardsville  
Bachelor of Science Degree**

**Fall Year 3**

| SIUE Course                                 | Hours     |
|---------------------------------------------|-----------|
| MATH 223 Logic and Mathematical Reasoning   | 4         |
| MATH 321 Linear Algebra I                   | 3         |
| MATH 320 Intro to Algebraic Structures      | 3         |
| ELEC Math/Stats./Or.or Science or Eng.Elec. | 3         |
| ELEC Math/Stats./Or.or Science or Eng.Elec. | 3         |
| <b>Total</b>                                | <b>16</b> |

**Spring Year 3**

| SIUE Course                                 | Hours     |
|---------------------------------------------|-----------|
| ELEC Electives                              | 3         |
| MATH 350 Introduction to Analysis           | 3         |
| MATH 420/451 Abst.Algebra/In. to Comp. Ana. | 3         |
| ELEC Math/Stats./Or.or Science or Eng.Elec. | 3         |
| MATH 421 Linear Algebra II                  | 3         |
| <b>Total</b>                                | <b>15</b> |

**Fall Year 4**

| SIUE Course                                 | Hours     |
|---------------------------------------------|-----------|
| MATH 498 Senior Seminar                     | 2         |
| STAT 380 Statistics for Applications        | 3         |
| MATH 450 Real Analysis I                    | 3         |
| ELEC Math/Stats./Or.or Science or Eng.Elec. | 3         |
| IS XXX Interdisciplinary Course             | 3         |
| MATH 4XX Mathematics Elective 400 level     | 3         |
| <b>Total</b>                                | <b>17</b> |

**Spring Year 4**

| SIUE Course                                 | Hours     |
|---------------------------------------------|-----------|
| MATH 499 Senior Project                     | 2         |
| ELEC Math/Stats./Or.or Science or Eng.Elec. | 3         |
| MATH 4XX Mathematics Elective 400 level     | 3         |
| MATH 435 Foundations of Geometry            | 3         |
| ELEC Electives                              | 4         |
| <b>Total</b>                                | <b>15</b> |

**Bachelor of Science Degree Total 123**

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

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