

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 ¹ | Analytical Geometry & Calculus | 5 |
| IAI HUMN | IAI Humanities | 3 |
| SPCH 131 | Public Speaking | 3 |
| Total | | 14 |

Spring Year 1

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

Fall Year 2

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

Spring Year 2

| LCCC Course | | Hours |
|-----------------------|------------------------------------|-----------|
| MATH 272 ¹ | 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 |
| Total | | 17 |

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

¹All 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 |
| Total | | 16 |

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 |
| Total | | 15 |

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 |
| Total | | 17 |

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 |
| Total | | 15 |

Bachelor of Science Degree Total **123**

Students must complete 50% or more of SIUE degree requirements at SIUE.(120 +hours required for