

Pathway Mathematical Studies- Applied Curriculum

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 ² | IAI Humanities | 3 |
| SPCH 131 | Public Speaking | 3 |
| IAI SOC BEH | IAI Social Behavioral Science | 3 |
| Total | | 17 |

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 ² | IAI Fine Arts | 3 |
| PHYS 142 ¹ | General Physics | 5 |
| Total | | 15 |

Spring Year 2

| LCCC Course | | Hours |
|-----------------------|----------------------------------|-----------|
| MATH 272 ¹ | Differential Equations | 3 |
| IAI HUM/FA | IAI Humanities/ Fine Arts | 3 |
| IAI LS | IAI Life Science | 3 |
| IAI HUM/FA | IAI Humanities/ Fine Arts | 3 |
| PS/LS ¹ | Additional Life/Physical Science | 3 |
| Total | | 15 |

Associate in Art/Science Degree Total **63**

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

²Students will need to complete one Human Relations course for the Associate Degree. Please see Partnership advisor.

³Students can replace electives with additional course in HUM/FA and one additional course in Social Science to complete either the AA or AS degree.

Southern Illinois University Edwardsville Bachelor of Science Degree

Fall Year 3

| SIUE Course | | Hours |
|--------------|----------------------------------|-----------|
| MATH 223 | Logic and Mathematical Reasoning | 4 |
| ELEC | Elective | 3 |
| MATH 321 | Linear Algebra I | 3 |
| STAT 380 | Statistics for Applications | 3 |
| CS 140 | Introduction to Computing I | 3 |
| Total | | 16 |

Spring Year 3

| SIUE Course | | Hours |
|---------------------------------------|--------------------------------|-----------|
| MATH 350 | Introduction to Analysis | 4 |
| MATH 464 | Partial Differential Equations | 3 |
| MATH/STAT/OR Math/Stats./Or. Elective | | 3 |
| ELEC | Elective | 3 |
| CS 150 | Introduction to Computing II | 3 |
| Total | | 16 |

Fall Year 4

| SIUE Course | | Hours |
|---------------------------------------|---------------------------------------|-----------|
| MATH 498 | Senior Seminar | 2 |
| MATH/STAT/OR Math/Stats./Or. Elective | | 3 |
| MATH 462 | Applied Numerical Analysis | 3 |
| ELEC | Electives | 4 |
| CS 240 | Introduction to Computing III | 3 |
| MATH 165 | Intro.to Program. and Problem Solving | 3 |
| Total | | 18 |

Spring Year 4

| SIUE Course | | Hours |
|---------------------------------------|--------------------------|-----------|
| MATH 499 | Senior Project | 2 |
| MATH/STAT/OR Math/Stats./Or. Elective | | 3 |
| IS XXX | Interdisciplinary Course | 3 |
| MATH/STAT/OR Math/Stats./Or. Elective | | 3 |
| ELEC | Electives | 5 |
| Total | | 16 |

Bachelor of Science Degree Total **129**

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