

**2+2 Mathematics
Pure Mathematics**

**St. Louis Community College
Associate in Art Degree**

Fall Year 1

STLCC Course		Hours
ENG 101	College Composition I	3
MTH 210	Analytic Geometry & Calculus I	5
Social Science ¹	Social Science Course	3
HUM/F ²	Humanities/Fine Arts	3
COM 101/107	Oral Communication/Public Speaking	3

Total 17

Spring Year 1

STLCC Course		Hours
ENG 102	College Composition II	3
MTH 220	Analytic Geometry & Calculus II	5
Social Science ¹	Social Science Course	3
GEN 200	Capstone Course	1
PE ELE	PE Elective Course	1
PHYS SCI ³	Physical Science Course	4

Total 17

Fall Year 2

STLCC Course		Hours
MTH 230	Analytic Geometry & Calculus III	5
PHY 122	Engineering Physics I	5
PE ELE	PE Elective Course	1
HUM/F ²	Humanities/Fine Arts	3

Total 14

Spring Year 2

STLCC Course		Hours
MTH 240	Differential Equations	3
Life Science ³	Life Science Course	4
Social Science ¹	Social Science Course	3
IDS 1XX	Interdisciplinary Studies	3
HUM/F ²	Humanities/Fine Arts	3

Total 16

Associate in Arts Total⁴ 64

Accepted Hours for Bachelor degree 60

¹Students must choose course that fulfills MO State Requirement

²Students must choose one course that meets Global/Intercultural Requirement.

³Students should consult with advisor to determine which courses are recommended for SIUE coursework.

⁴Additional hours required for AA. Students must complete 50 % or more of SIUE degree requirements at SIUE.

**Southern Illinois University Edwardsville
Bachelor Degree**

Fall Year 3

SIUE Course		Hours
MATH 223	Logic and Mathematical Reasoning	4
ELE XXX	Elective	3
MATH 321	Linear Algebra I	3
CS 145	Programming for Engineers	3
ELE XXX	Science Elective 200 or higher	3

Total 16

Spring Year 3

SIUE Course		Hours
MATH 350	Introduction to Analysis	4
MATH 437	Differential Geometry	3
ELE XXX	Science Elective 200 or higher	3
ELE XXX	Science Elective 200 or higher	3
IS XXX	Interdisciplinary Course	3

Total 16

Fall Year 4

SIUE Course		Hours
MATH 498	Senior Seminar	2
MATH 320	Intro to Algebraic Structures	3
MATH 450	Real Analysis I	3
MATH 421	Linear Algebra II	3
ELE XXX	Science Elective 200 or higher	3

Total 14

Spring Year 4

SIUE Course		Hours
MATH 499	Senior Project	2
MATH 451 ¹	Intro to Complex Analysis	3
MATH 4XX	Mathematics Elective 400 level	3
MATH 420 ¹	Abstract Algebra	3
ELE XXX	Elective	3

Total 14

Bachelor Total 124

¹Math 420 only offered during odd numbered spring terms and 451 during odd numbered fall terms. Because of this, students entering in an even numbered fall will not be able to complete this course during their usual course of study. If a student is on track to graduate in four years and has followed this plan, the Department will replace the Math 420 or 451 requirement with another acceptable course or offer an independent study course, at our discretion.