

UNIVERSITY OF MISSOURI- ST. LOUIS
AND
JEFFERSON COLLEGE

ASSOCIATE IN ARTS IN GENERAL EDUCATION leading to a BACHELOR OF SCIENCE in

MATHEMATICS

FIRST SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
ENG 101 English Composition I (3)	<i>Approved Elective</i>
*MTH 141 Precalculus (5)	<i>Math 1030/1035</i>
COL 101 Introduction to College (1)	<i>Free Elective</i>
**Lang 101 Beginning Language (5)	<i>Lang 1001</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

THIRD SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
HST 103 U.S. History I (3) or HST 104 U.S. History II (3)	<i>Hist 1001</i> <i>Hist 1002</i>
*MTH 180 Calculus I (5)	<i>Math 1800</i>
**Lang 201 Lang. Gram.& Comp.(3)	<i>Lang 2101</i>
Humanities (3)	<i>Gen Ed</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>

Semester Hours: (17)

FIFTH SEMESTER

UMSL Course (Hours)
ENGLSH 3100 Advanced Expository Writing (3)
CMP SC 1250 Introduction to Computing (3)
MATH 1320 Applied Statistics I (3)
MATH 2000 Analytic Geometry and Calculus III (3)
Upper Level Elective (3)

Semester Hours: (15)

SEVENTH SEMESTER

UMSL Course (Hours)
MATH 4100 Real Analysis I (3)
MATH 4160 Complex Analysis I (3)
4000 Level Mathematics (3)
4000 Level Mathematics, Statistics, or Comp. Science (3)
Upper Level Elective (3)

Semester Hours: (15)

SECOND SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
ENG 102 English Composition II (3)	<i>Approved Elective</i>
PSC 102 U.S.& MO Gov.& Const.(3)	<i>Pol Sc 1100</i>
SPD 175 Public Speaking (3)	<i>Commun 1040</i>
**Lang 102 Intermediate Lang. (5)	<i>Lang 1002</i>
Humanities (3)	<i>Gen Ed</i>

Semester Hours: (17)

FOURTH SEMESTER

Jefferson College Course (Hours)	UMSL Equivalent
*MTH 185 Calculus II (5)	<i>Math 1900</i>
Social & Behavioral Science (3)	<i>Gen Ed</i>
Biological Science (3-4)	<i>Gen Ed</i>
Physical Science (3-4)	<i>Gen Ed</i>

Semester Hours: (15)

SIXTH SEMESTER

UMSL Course (Hours)
MATH 2020 Introduction to Differential Equations (3)
MATH 2450 Elementary Linear Algebra (3)
MATH 3000 Discrete Structures (3)
Upper Level Elective (3)
Upper Level Elective (3)

Semester Hours: (15)

EIGHTH SEMESTER

UMSL Course (Hours)
MATH 4400 Introduction to Abstract Algebra I (3)
MATH 4450 Linear Algebra (3)
4000 Level Mathematics, Statistics, or Comp. Science (3)
Upper Level Elective (3)

Semester Hours: (12)

DEGREE NOTES:

* Depending on their high-school education or aptitude test scores, Students may begin their Math sequence at a higher level. For those students, *MTH 201 Calculus III* may be taken in the fourth semester and is equivalent to UMSL's *MATH 2000 Analytic Geometry and Calculus III*.

** Jefferson College students can complete a foreign language sequence in French or Spanish for satisfactory equivalence and completion of the UMSL Foreign Language requirement. It is **strongly** recommended that **all** foreign language proficiency courses be completed at Jefferson College or at UMSL. If the proficiency sequence is incomplete at the time of transfer, students will be required to take the UMSL Foreign Language Placement exam before being permitted to take additional foreign language courses.

A minimum of 120 hours is required for the Bachelor of Science in Mathematics.

Free Elective hours do not count towards the total required for graduation at the University of Missouri-St. Louis.

Students completing a degree from a Missouri community college that includes a CBHE approved general education core will be allowed transfer credit of more than 64 hours only if the additional lower division credits are applicable to the baccalaureate degree or are prerequisites for upper division courses in the major.

A maximum of 60 hours may transfer without the completion of a degree including a CBHE approved general education core.

Please seek advisement from your Jefferson College Academic Advisor for assurance of Associates degree completion.

IT IS IMPORTANT TO CONTACT AN UMSL TRANSFER COORDINATOR EACH SEMESTER:

Susan Bateman, University of Missouri- St. Louis Transfer Coordinator, (636) 797-3000: ext. 244.

For additional information contact R. Friedlander in the University of Missouri- St. Louis Mathematics and Computer Science Department: 307 Computer Center Building, (314) 516-5741, friedlan@umsl.edu.