ASSOCIATE OF ARTS TO A
BACHELOR OF SCIENCE IN MATHEMATICS

UNIVERSITY OF MISSOURI – ST. LOUIS
EAST CENTRAL COLLEGE
TRANSFER GUIDE

This Guide is intended for the use of students who plan on transferring from East Central College (ECC) with a completed Associate of Arts to the University of Missouri - St. Louis (UMSL) to pursue a Bachelor of Science in Mathematics.

For more information on UMSL’s Bachelor of Science in Mathematics, please visit our online Course Catalog.

The following are the requirements of the ECC Associate of Arts degree program as they are recommended for students intending to continue on into UMSL’s Bachelor of Science in Mathematics. Completing these requirements as they are recommended here will maximize the transferability of a student’s coursework toward their UMSL Bachelor’s degree. Further details of this Associates degree program, as well as comprehensive lists of courses that satisfy each General Education component, may be found within the ECC course catalog or may be obtained through an ECC advisor.

This guide is intended for use under advisement of an ECC Academic Advisor or UMSL Admissions Counselor and is not considered to be substitution of such advisement.

GENERAL EDUCATION – CORE 42

COMMUNICATIONS – WRITTEN & ORAL
9 HOURS REQUIRED
☐ ENG 101 English Comp I (MOTR ENGL 100) (3)
☐ ENG 102 English Comp II (MOTR ENGL 200) (3)
☐ Complete 1 of the following courses:
  COM 101 Oral Communications (MOTR COMM 100) (3)
  COM 110 Public Speaking (MOTR COMM 110) (3)

MATHEMATICAL SCIENCES
3 HOURS REQUIRED
☐ MTH 170 College Algebra (MOTR MATH 130) (3)

SOCIAL & BEHAVIORAL SCIENCES
9 HOURS REQUIRED
Must be from 2 different areas of study
☐ Complete 1 of the following courses (Civics)
  HST 101 U.S. History to 1877 (MOTR HIST 101) (3)
  HST 102 U.S. History since 1877 (MOTR HIST 102) (3)
  PSC 102 US Government I: National & State (MOTR PSOC 101) (3)
☐ ECO 101 Principles of Macroeconomics (MOTR ECON 101) (3) **see note on second page
☐ ECO 102 Principles of Microeconomics (MOTR ECON 102) (3) **see note on second page

HUMANITIES & FINE ARTS
9 HOURS REQUIRED
Must be from 2 different areas of study
☐ Complete 2 courses in Humanities and Fine Arts from MOTR list (6)
☐ MUS 151 World Music (MOTR MUSC 102) (3) *meets UMSL’s cultural diversity requirement

NATURAL SCIENCES
7 HOURS MINIMUM REQUIRED, MUST INCLUDE 1 LAB COURSE
Must be from 2 different areas of study
☐ Complete 1 laboratory course in Natural Sciences from MOTR list (4-5)
☐ Complete 1 additional course in Natural Science from MOTR list (3)

CORE 42 ELECTIVE(S) (MOTR COURSES TO REACH 42 CREDIT HOURS)
☐ MTH 171 Trigonometry (2)
☐ Complete additional MOTR elective to reach 42 hours

The information in this Transfer Guide is in accordance with the published 2021-2022 Course Catalogs of both UMSL and ECC.
ASSOCIATE OF ARTS
TO A
BACHELOR OF SCIENCE IN MATHEMATICS

GENERAL ELECTIVES FOR AA-GENERAL TRANSFER STUDIES (60 HOURS MINIMUM)
☐ MTH 190 Analytic Geometry & Calculus I (5)
☐ MTH 210 Analytic Geometry & Calculus II (5)
☐ MTH 220 Analytic Geometry & Calculus III (5)
☐ MTH 245 Differential

**Note: Candidates for the BS in Mathematics must satisfy the requirements in 2 related areas from the following at UMSL: Computer Science, Statistics, Biology, Chemistry, Economics, Philosophy, Physics, Business Administration, and Engineering. At ECC a student can satisfy the social and behavioral science courses with the aforementioned economics courses while also satisfying 2 of the course required for the Economics related area.

For any questions regarding this guide please contact the UMSL Office of Admissions at (314) 516-5451.