

**ASSOCIATE OF ARTS
TO A
BACHELOR OF SCIENCE IN PHYSICS**



**UNIVERSITY OF MISSOURI – ST. LOUIS &
ST. LOUIS COMMUNITY COLLEGE
TRANSFER GUIDE**



This Guide is intended for the use of students who plan on transferring from St. Louis Community College (STLCC) with a completed Associate in Arts to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Physics.

This Bachelor's degree offers Emphasis options in the following areas: General Physics, Astrophysics, Engineering Physics, and Medical Physics. Unless specified below, the courses recommended in this guide will be applicable to all of these Emphases. For more information on UMSL's Bachelor of Science in Physics, please visit our online [Course Catalog](#).

The following are the requirements of the STLCC Associate in Arts degree program as they are recommended for students intending to continue on into UMSL's Bachelor of Science in Physics. 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 STLCC course catalog or may be obtained through a STLCC advisor.

This guide is intended for use under advisement of a STLCC Academic Advisor or UMSL Transfer Specialist and is not considered to be substitution of such advisement.

GENERAL EDUCATION-CORE 42

Communication-Written & Oral

9 hours required

- ENG 101 College Composition I (MOTR ENGL 100) (3)
- ENG 102 College Composition II (MOTR ENGL 200) (3)
- Complete 1 of the following courses:
 - COM 101 Oral Communication I (MOTR COMM 100) (3)
 - COM 107 Public Speaking (MOTR COMM 110) (3)

Mathematical Science

3 hours required

- MTH 185 Pre-calculus (MOTR MATH 150) (5)

Social and Behavioral Sciences

9 hours required

- Complete 1 of the following courses (Civics requirement)
 - HST 101 US History to 1865 (MOTR HIST 101) (3)
 - HST 102 US History 1865-Present (MOTR HIST 102) (3)
 - PSC 101 Intro to American Politics (MOTR POSC 101) (3)
- Complete 2 additional courses in the Social and Behavioral Sciences from MOTR list

Humanities and Fine Arts

9 hours required

- Complete 1 of the following courses to meet UMSL's Cultural Diversity requirement
 - ENG 231 World Literature (MOTR LITR 200) (3)
 - PHL 103 World Religions (MOTR RELG 100) (3)
- Complete 2 additional courses in the Humanities and Fine Arts from MOTR list

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Natural Sciences 7 hours minimum required, must include at least 1 lab class

- CHM 105 General Chemistry I (MOTR CHEM 150 L) (5)
- PHY 122 Engineering Physics I (MOTR PHYS 200 L) (5)

CORE 42 ELECTIVE(S)

No electives needed if plan listed above is followed.

REQUIRED ELECTIVES FOR AA GENERAL TRANSFER STUDIES (60 HOURS MINIMUM)

A student must complete enough Elective Coursework to reach 60 Total Hours:

- MTH 210 Analytic Geometry and Calculus I (5)
- MTH 220 Analytic Geometry and Calculus II (5)
- CHM 106 General Chemistry II (5)
- PHY 223 Engineering Physics II (5)

For any questions regarding this guide please contact the UMSL Office of Transfer Services at (314) 516-5162.