ASSOCIATE OF ARTS
TO A
BACHELOR OF SCIENCE IN PHYSICS

UNIVERSITY OF MISSOURI – ST. LOUIS
ST. CHARLES COMMUNITY COLLEGE
TRANSFER GUIDE

This Guide is intended for the use of students who plan on transferring from St. Charles Community College (SCC) with a completed Associate of 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 Biophysics 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 SCC Associate of 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 SCC course catalog or may be obtained through an SCC advisor.

This guide is intended for use under advisement of an SCC Academic Advisor or an UMSL Student Recruitment Specialist and is not considered to be substitution of such advisement.

GENERAL EDUCATION – CORE 42

Communications – Written & Oral 9 hours required
☐ Complete the following ENG courses with a C- or better
   ENG 101 English Composition I (MOTR ENGL 100) (3)
   ENG 102 English Composition II (MOTR ENGL 200) (3)
☐ Complete 1 of the following courses:
   COM 106 Public Speaking (MOTR COMM 110) (3)
   COM 110 Interpersonal Communication (MOTR COMM 120) (3)

Mathematical Sciences 3 hours required
☐ MAT 171 Pre-Calculus Mathematics (MOTR MATH 150) (6) *complete with a C- or higher

Social and Behavioral Sciences 9 hours required
Must be from two different areas of study
☐ Complete 1 of the following courses (Civics Requirement)
   HIS 101 U.S. History to 1877 (MOTR HIST 101) (3)
   HIS 102 U.S. History since 1877 (MOTR HIST 102) (3)
   POL 101 American Government (MOTR POSC 101) (3)
☐ Complete 2 additional courses in Social and Behavioral Sciences from MOTR list

Humanities and Fine Arts 9 hours required
Must be from two different areas of study
☐ LIT 200 World Mythology (MOTR LITR 201) (3) or PHL 201 World Religion (MOTR RELG 100) (3) *either course can be used to satisfy UMSL’s cultural diversity requirement
☐ Complete 2 additional courses in Humanities and Fine Arts from MOTR list

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Life and Physical Sciences  7 hours minimum required, must include 1 lab
☐ CHM 115 General Chemistry I (CHEM 150L) (5)
☐ PHY 250 Engineering Physics I (5)

CORE 42 ELECTIVE(S) (MOTR COURSES TO REACH 42 CREDIT HOURS)
No elective needed if guide is followed

REQUIRED ELECTIVES for AA-General Transfer Studies (60 hours minimum)
☐ MAT 180 Calculus and Analytic Geometry I (5)
☐ MAT 230 Calculus and Analytic Geometry II (5)
☐ CHM 116 General Chemistry II (5)
☐ PHY 251 Engineering Physics II (5)

For questions about this transfer guide please call the Office of Admissions at 314-516-5451

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