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

This Bachelors 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 JeffCo 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 Bachelors 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 JeffCo course catalog or may be obtained through a JeffCo advisor.

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

I. COMMUNICATIONS  9 HOURS
- ENG 101 English Composition I (3)
- ENG 102 English Composition II (3)
- Complete 1 of the Following Courses:
  COM 100 Fundamentals of Communication (3)
  COM 110 Public Speaking (3)

II. HUMANITIES  9 HOURS
- Complete 1 of the Following Courses to satisfy UMSL’s Cultural Diversity Requirement:
  HST 210 Asian Civilization (3)
  MSC 137 World Music (3)
  PHL 201 World Religions (3)
- Complete 2 additional Courses in the Humanities from at least 2 Humanities Disciplines:
  Humanities Course: ____________________________
  Humanities Course: ____________________________

III. MATHEMATICS AND NATURAL SCIENCES
Mathematics  5 Hours
- MTH 141 Precalculus (5)

Natural Sciences  8 Hours
- PHY 223 General Physics I (5)
- Complete 1 Course in the Biological Sciences: ____________________________

The information in this Transfer Guide is in accordance with the published 2016/2017 Course Catalogs of both UMSL and JeffCo.
ASSOCIATE IN ARTS
TO A
BACHELOR OF SCIENCE IN PHYSICS

IV. SOCIAL AND BEHAVIORAL SCIENCES
U.S. and Missouri Constitutions 6 Hours
☐ □ Complete 2 Courses, 1 in Constitution studies and 1 in American History or Government:
  Constitution Course: __________________________
  American History or Government Course: __________________________

Social and Behavioral Sciences 6 Hours
☐ □ Complete 2 Courses in the Social and Behavioral Sciences:
  Social and Behavioral Sciences Course: __________________________
  Social and Behavioral Sciences Course: __________________________

V. GENERAL EDUCATION OPTION 5 HOURS
☐ CHM 111 General Chemistry I (5)

VI. COMPUTER LITERACY 3 HOURS
☐ CIS 125 Computer Concepts and Applications (3)

VII. FIRST YEAR EXPERIENCE 1 HOUR
☐ Complete 1 First-Year Experience Course: __________________________

VIII. ELECTIVES 10 HOURS
A student must complete enough Elective Coursework to reach 62 Total Hours:
☐ MTH 180 Calculus I (5)
☐ MTH 185 Calculus II (5)

Students that plan to transfer to UMSL to pursue a Bachelor of Science in Physics but do not wish to complete an Associates degree at JeffCo should focus on completing the Highlighted Courses above in conjunction with those outlined in the JeffCo General Education Transfer Guide.

For any questions regarding this guide please contact Sue Bateman at batemans@umsl.edu.