

**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 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 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 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 SCC course catalog or may be obtained through a SCC advisor.

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

## **GENERAL EDUCATION**

### **Communications 9 Hours**

- ENG 101 English Composition I (3)
- ENG 102 English Composition II (3)
- SPE 101 Oral Communication (3)

### **Social Sciences 9 Hours**

- Complete 1 course from the Social Sciences Group I: \_\_\_\_\_
- Complete 1 course from the Social Sciences Group II: \_\_\_\_\_
- Complete 1 additional Social Sciences course from Group I, Group II, or any *HIS* or *POL*: \_\_\_\_\_

### **Humanities 9 Hours**

- Complete 1 course from the Humanities Group I: \_\_\_\_\_
- Complete 1 course from the Humanities Group II: \_\_\_\_\_
- Complete 1 additional Humanities course from Group I or Group II: \_\_\_\_\_

### **Mathematics 6 Hours**

- MAT 171 Pre-Calculus Mathematics (6)

### **Natural Sciences 8 Hours**

At least 1 of these Natural Science courses must be taken with a corresponding Laboratory course:

- Complete 1 course from the Natural Sciences Group I: \_\_\_\_\_
- PHY 250 Engineering Physics I (5)**

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## Multicultural/Valuing 3 Hours

- Complete 1 of the following Multicultural/Valuing courses to fulfill the UMSL Cultural Diversity requirement:
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| ANT 102 Introduction to Cultural Anthropology (3)           | GLC 180 Australian Culture (1-3)                         |
| ANT 103 Introduction to Archaeology (3)                     | GLC 290 Special Topics in Global Culture (3)             |
| ANT 151 World Archaeology (3)                               | GLS 101 Introduction to Global Studies (3)               |
| ANT 161 Archaeology of Religion (3)                         | HIS 160 Native American History (3)                      |
| ANT 171 Introduction to Egyptology (3)                      | HIS 202 Southwestern Asia: The Islamic World & India (3) |
| ANT 220 Middle East: People and Cultures (3)                | HIS 203 Eastern Asia: China & the Pacific Rim (3)        |
| ANT 224 People and Cultures of Africa (3)                   | LIT 271 Literature and Contemporary Cultures (3)         |
| GLC 133 Cultures of Central America and the Caribbean (1-3) | PHL 201 World Religion (3)                               |
| GLC 135 Cultures of the Amazon and Andes (1-3)              | POL 220 Middle Eastern Politics (3)                      |
| GLC 170 African Culture (1-3)                               |  |

## Capstone 1 Hour

- COL 299 Sophomore Portfolio Assessment (1)

## ELECTIVE COURSEWORK 23 HOURS

A student must complete enough Elective Coursework to reach 64 Total Hours:

- CPT 103 Microcomputer Applications (3)
- **MAT 180 Calculus and Analytic Geometry I (5)**
- **MAT 230 Calculus and Analytic Geometry II (5)**
- **PHY 251 Engineering Physics II (5)**
- **CHM 115 General Chemistry I (5)**

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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 SCC should focus on completing the **Highlighted Courses** above in conjunction with those outlined in the [SCC General Education Transfer Guide](#).

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