

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



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



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

For more information on UMSL's Bachelor of Science in Biology, please visit our online Course [Catalog](#).

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

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

**Communications                      9 Hours**

- ENG 101 Rhetoric & Composition I (3)
- ENG 102 Rhetoric & Composition II (3)
- CMN 101 Introduction to Speech I (3)

**Humanities and Fine Arts                      9 Hours**

- Complete the following General Humanities course to satisfy both JWCC's International Awareness requirement and UMSL's Cultural Diversity requirement:  
    PHL 201 Major World Religions (3)
- Complete 1 course in Humanities - Fine Arts: \_\_\_\_\_
- Complete 1 additional courses in General Humanities or Fine Arts:  
    Humanities and Fine Arts Course \_\_\_\_\_

**Social and Behavioral Sciences                      9 Hours**

- Complete 3 courses from at least two different subject areas in Psychology/Sociology, History, or Economics/Political Science:  
    Social and Behavioral Science Course \_\_\_\_\_
- Social and Behavioral Science Course \_\_\_\_\_
- Social and Behavioral Science Course \_\_\_\_\_

**Mathematics                      3 Hours**

- MAT 113 College Algebra (3)**

**Life Science                      4 Hours**

- BIO 101 General Biology (4)**

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**Physical Science    4 Hours**

- CHM 103 Principles of Chemistry I (4)

**Electives                    24 Hours**

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

- MAT 114 Trigonometry (3)
- Complete 1 of the following Math Courses:
  - MAT 220 Analytic Geometry & Calculus I (4)
  - MAT 234 Calculus for Social Scientists (4)
- CHM 104 Principles of Chemistry II (4)
- PHY 103 Fundamentals of Physics I (4)
- PHY 104 Fundamentals of Physics II (4)
- Elective Course: \_\_\_\_\_
- Elective Course: \_\_\_\_\_

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Students that plan to transfer to UMSL to pursue a Bachelor of Science in Biology but do not wish to complete an Associate degree at JWCC should focus on completing the **Highlighted Courses** above in conjunction with those outlined in the [JWCC 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.