

**ASSOCIATE IN SCIENCE
TO A
BACHELOR OF SCIENCE IN BIOCHEMISTRY & BIOTECHNOLOGY**



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



This Guide is intended for the use of students who plan on transferring from Southwestern Illinois College (SWIC) with a completed Associate in Science to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Biochemistry & Biotechnology.

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

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

This guide is intended for use under advisement of a SWIC 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)
- SPCH 151 Fundamentals of Public Speaking (3)

1 Course of the following Humanities and Social/Behavioral Science Courses must be selected to also satisfy the SWIC Human Relations requirement.

1 Course of the following Humanities and Social/Behavioral Science Courses must be selected to also satisfy both SWIC's Non-Western Culture requirement and UMSL's Cultural Diversity requirement chosen from:

- | | |
|--------------------------------------------------------------|-------------------------------------------------------------------|
| <input type="checkbox"/> ANTH 150 Cultural Anthropology (3) | <input type="checkbox"/> HIST 118 Asian History (3) |
| <input type="checkbox"/> HIST 114 Latin American History (3) | <input type="checkbox"/> LIT 205 Lit of Non-Western Countries (3) |
| <input type="checkbox"/> HIST 115 Mid-East History (3) | <input type="checkbox"/> MUS 110 World Music (3) |
| <input type="checkbox"/> HIST 117 African History (3) | <input type="checkbox"/> PHIL 155 Non-Western Philosophy (3) |

General Humanities 3 Hours

Complete 1 course in General Humanities: _____

Humanities - Fine Arts 3 Hours

Complete 1 course in Humanities - Fine Arts: _____

Social Science 3 Hours

Complete 1 course in Social Science: _____

Behavioral Science 3 Hours

Complete 1 course in Behavioral Science: _____

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Mathematics 8 Hours

Complete 1 of the following courses:

 MATH 203 Analytic Geometry & Calculus I (5)

 MATH 213 Calculus for Business & Social Science (4)

Complete 1 additional course in Mathematics: _____

Life Science 4 Hours

BIOL 101 Principles of Biology I (4)

Physical Science 5 Hours

CHEM 105 General Chemistry I (5)

Additional Science 4 Hours

BIOL 250 Microbiology (4)

Additional Math or Science 4 Hours

BIOL 270 Genetics (4)

Human Well-Being 2 Hours

HRO 150 Fundamentals of Nutrition (2)

Electives 17 Hours

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

CHEM 106 General Chemistry II (5)

MATH 112 College Algebra (4)

MATH 114 Trigonometry (3)

PHYS 151 College Physics I (5)

Students that plan to transfer to UMSL to pursue a Bachelor of Science in Biochemistry & Biotechnology but do not wish to complete an Associates degree at SWIC should focus on completing the **Highlighted Courses** above in conjunction with those outlined in the [SWIC General Education Transfer Guide](#).

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