This Guide is intended for the use of students who plan on transferring from Mineral Area College (MAC) with a completed Associate of 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 MAC’s Associate of Arts degree program as they are recommended for students who intend on transferring to UMSL and completing a Bachelor of Science in Biology. Completing these requirements as they are recommended will maximize the transferability of a student’s coursework toward their UMSL Bachelor’s degree. For more detailed information on MAC’s Associate of Arts degree program, as well as comprehensive lists of courses that satisfy each General Education component, students should contact a MAC advisor or check the MAC course catalog.

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

### GENERAL EDUCATION

**ENGLISH**

- ENG1330 English Composition I (3)
- ENG1340 English Composition II (3)
- ENG1440 Public Speaking (3)

<table>
<thead>
<tr>
<th>General Education Component</th>
<th>Required Hours</th>
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<tbody>
<tr>
<td>English</td>
<td>9 Hours</td>
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**HUMANITIES**

Students need to complete total of 9 hours from at least two different disciplines:

- SOC1540 Introduction to Cultural Anthropology (3)
  - Course fulfills both UMSL and MAC Cultural Diversity Requirement.

- Complete 2 additional courses:
  - Humanities Course: ______________________
  - Humanities Course: ______________________

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<td>Humanities</td>
<td>9 Hours</td>
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**HISTORY & POLITICAL SCIENCE**

- POS1180 American Political Systems (3)
- Complete 1 of the following courses:
  - HIS1230 American History I (3)
  - HIS1240 American History II (3)

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<tr>
<th>General Education Component</th>
<th>Required Hours</th>
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<tbody>
<tr>
<td>History &amp; Political Science</td>
<td>6 Hours</td>
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**MATHEMATICS**

- MAT1230 College Algebra (3)
  - Students can satisfy requirement with a higher-level math course. Please discuss options with advisor.

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<tr>
<th>General Education Component</th>
<th>Required Hours</th>
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<tbody>
<tr>
<td>Mathematics</td>
<td>3 Hours</td>
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ASSOCIATE OF ARTS
TO A
BACHELOR OF SCIENCE IN BIOLOGY

PHYSICAL & BIOLOGICAL SCIENCES  8-10 Hours
- BIO1150 General Biology (5)
- PHS1350 General Chemistry I (5) *(fall semester only)*

SOCIAL & BEHAVIORAL SCIENCES  3 Hours
- Complete 1 Social & Behavioral Science Course
  - Social & Behavioral Science Course: ________________

COMPUTER INFORMATION SYSTEMS  3 Hours
- Complete 1 Computer Information Systems Course
  - Computer Information Systems Course: ________________

PHYSICAL EDUCATION  2 Hours
- Complete 2 one-hour credit courses or 1 two-credit hour course to fulfill the Physical Education Requirement:
  - Physical Education Course: ________________
  - Physical Education Course: ________________

ELECTIVES
Students must complete enough Elective Coursework to meet MAC degree requirements:
- BIO2112 General Botany (5)
- BIO2122 General Zoology (5)
- BIO2430 General Genetics (4)
- MAT1035 Trigonometry (3)
- MAT1650 Analytic Geometry and Calculus I (3) *(fall semester only)*
- PHS1390 General Chemistry II (5) *(spring semester only)*
- PHS1420 College Physics (4) *(fall semester only)*
- PHS1440 College Physics (4) *(spring semester only)*
- PHS2350 Organic Chemistry I (5) *(fall semester only)*
- PHS2360 Organic Chemistry II (5) *(spring semester only)*

Students that plan to transfer to UMSL to pursue a Bachelor of Science in Biology but do not wish to complete an Associate’s of Arts degree at MAC should refer to the UMSL General Education Transfer Guide.

For questions please contact Tami Davenport at (573) 518-2324 or at davenportt@umsl.edu.