

## Associate of Science – Biology

Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Date: \_\_\_\_\_

This academic map is a semester-by-semester schedule of courses based upon the AS degree requirements as outlined in the academic catalog. In order for you to graduate in two years, specific milestones, courses, and other requirements (e.g., prerequisites) must be met in a timely manner. To ensure that milestone courses are completed, it is important that you, when possible and appropriate, enroll in any needed developmental coursework during the first semester(s) of enrollment. Additionally, keep in mind this map does not substitute for academic advisement. If you have questions, see your advisor and refer to the MACC website for current information.

*All technical and general education elective courses should be selected to align with intended transfer degree program. See program advisors at MACC and the intended transfer institution for assistance with selection of appropriate elective courses.*

| Taken | Course                                         | Semester                                                                                                          | Hours        |
|-------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------|
|       |                                                | <b>First Semester</b>                                                                                             |              |
|       | BIO155                                         | General Biology for Majors I                                                                                      | 4            |
|       | LAL101                                         | ^Composition I                                                                                                    | 3            |
|       | MTH140                                         | ^College Algebra                                                                                                  | 3            |
|       | PHY121                                         | ^General Chemistry I                                                                                              | 5            |
|       |                                                |                                                                                                                   | <b>15</b>    |
|       |                                                | <b>Second Semester</b>                                                                                            |              |
|       | BIO160                                         | General Biology for Majors II                                                                                     | 4            |
|       | LAL102                                         | ^Composition II                                                                                                   | 3            |
|       | MTH160 <u>or</u><br>MTH190                     | ^Elementary Statistics <u>or</u><br>^Calculus for Business and Life Sciences                                      | 3            |
|       | PHY122                                         | ^General Chemistry II                                                                                             | 5            |
|       |                                                |                                                                                                                   | <b>15</b>    |
|       |                                                | <b>Third Semester</b>                                                                                             |              |
|       | HST105 <u>or</u><br>HST106 <u>or</u><br>PSC105 | American History to 1865 <u>or</u><br>American History from 1865 <u>or</u><br>Introduction to American Government | 3            |
|       |                                                | <u>General Education – Humanities/Fine Arts</u>                                                                   | 3            |
|       | PHY181                                         | General Physics I                                                                                                 | 4            |
|       | SPK101 <u>or</u><br>SPK120                     | Public Speaking <u>or</u><br>Interpersonal Communication                                                          | 3            |
|       |                                                | <u>Technical Elective</u>                                                                                         | 3-5          |
|       |                                                |                                                                                                                   | <b>16-18</b> |
|       |                                                | <b>Fourth Semester</b>                                                                                            |              |
|       |                                                | <u>Free Elective (General Education or Technical)</u>                                                             | 3-5          |
|       | PHY182                                         | General Physics II                                                                                                | 4            |
|       |                                                | <u>General Education – Social/Behavioral Science</u>                                                              | 3            |
|       |                                                | <u>Technical Elective (BIO220 Recommended)</u>                                                                    | 4-5          |
|       |                                                |                                                                                                                   | <b>14-17</b> |
|       |                                                | Minimum Required Hours for Degree                                                                                 | <b>60</b>    |

^Please refer to the college catalog and course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).

**Additional Graduation Requirement** - Missouri law, included in Senate Bill 807, requires every college student pursuing an associate's or bachelor's degree at a public institution to pass the Missouri Higher Education Civics Achievement Examination with at least a 70 percent to graduate. The rule will apply to the incoming class of first-time college students in the fall of 2019 and all students thereafter.

### General Education Elective Options

| <u>Humanities/Fine Arts Electives</u>            | <u>Social/Behavioral Science Electives</u>  |
|--------------------------------------------------|---------------------------------------------|
| ART 101 Art Survey & Appreciation I              | ECN 101 Macroeconomics                      |
| ART 102 Art Survey & Appreciation II             | ECN 102 Microeconomics                      |
| DRM 120 Theatre Appreciation                     | GEO 101 World Geography I                   |
| LAL 120 American Literature Survey to 1870       | HST 101 Western Civilization I              |
| LAL 121 American Literature Survey 1870- Present | HST 105 American History to 1865            |
| LAL 125 African-American Literature              | HST 106 American History from 1865          |
| LAL 150 English Literature Survey to 1750        | PSC 105 Introduction to American Government |
| LAL 151 English Literature 1750-Present          | PSY 101 General Psychology                  |
| LAL 251 Science Fiction                          | SOC 101 Sociology                           |
| LAL 275 Classical Mythology                      |                                             |
| MUS 102 Music Appreciation                       |                                             |
| MUS 105 Music of America                         |                                             |
| MUS 205 World Music                              |                                             |
| PHI 150 Introduction to Philosophy               |                                             |
| PHI 151 Introduction to Logic                    |                                             |
| PHI 152 Introduction to Ethics                   |                                             |
| PHI 153 Bioethics                                |                                             |
| PHI 251 Religions of the World                   |                                             |

### Technical Elective Options

| <u>Science Electives</u>          | <u>Math Electives</u>                   |
|-----------------------------------|-----------------------------------------|
| BIO150 General Zoology            | MTH140 College Algebra                  |
| BIO151 Introductory Plant Biology | MTH160 Elementary Statistics            |
| BIO206 Microbiology               | MTH201 Analytic Geometry and Calculus I |
| BIO220 General Genetics           |                                         |
| PHY140 Soil Science               |                                         |
| PHY163 Geology                    |                                         |
| PHY164 Atmospheric Science        |                                         |
| PHY222 Organic Chemistry I        |                                         |