

SLCC to MU Transfer Agreement for BS degree in Biological Science

The 73 hours of credit required for the Associate of Arts degree in Life Sciences at SLCC will be accepted by MU to be applied to the Bachelor of Science in Biological Sciences at MU.

Transfer students from SLCC who have completed the Associate in Arts degree in Life Sciences, upon acceptance into the Bachelor of Science in Biological Sciences program at MU, will have junior standing at MU.

Section III: Program Plan

Students falling under this program articulation agreement will be responsible for successfully completing the following requirements.

Year 1 and 2 Associate in Arts Degree in Life Sciences at SLCC

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| I. General Education | 45 credits |
| IDS:101 | Cornerstone (3 credits) |
| ENG:101 | College Composition I (3 credits) |
| ENG:102 | College Composition II (3 credits) Required for matriculation at MU |
| COM:101 | Oral Communication I (3 credits) |
| MTH:160 | College Algebra (or higher) (4 credits) |
| XXX:xxx | Missouri State Law Requirement (3 credits) |
| XXX:xxx | Social and Behavioral Sciences (6 credits) |
| XXX:xxx | Humanities and Fine Arts (6 credits) |
| CHM:105 | General Chemistry I (5 credits) |
| CHM:106 | General Chemistry II (5 credits) |
| IDS:201 | Capstone (4 credits) |
| II. Physical Education Activity | 2 credits |
| III. Area of Concentration | 26 credits |
| BIO:140 | Principles of Biology I (4 credits) |
| BIO:141 | Principles of Biology II (4 credits) |
| CHM:206 | Organic Chemistry Lecture I (3 credits) |
| CHM:207 | Organic Chemistry Lecture II (3 credits) |
| CHM:210 | Organic Chemistry Laboratory I (2 credits) |
| CHM:211 | Organic Chemistry Laboratory II (2 credits) |
| PHY:111 | College Physics I (4 credits) |
| PHY:112 | College Physics II (4 credits) |

Students that enter SLCC with advanced standing in a foreign language, or that test into advanced semesters of a foreign language sequence at SLCC, are encouraged to complete the foreign language sequence at SLCC.

**Total credits required for an Associate in Arts with a Concentration in Life Sciences
at SLCC: 73**

**Years 3 and 4
Bachelor of Science in Biological Sciences at MU**

Students must complete a total of 120 hours in order to graduate with a Bachelor of Science in Biological Sciences from the MU College of Arts & Science. It will take approximately 43-56 credit hours beyond the credits from the Associate of Arts degree in Life Sciences at SLCC to fulfill the requirements specific to the Bachelor of Science in Biological Sciences at MU. Elective courses may be used, if necessary, to bring the total credit hours at SLCC and MU to 120.

Requirements in the Sciences and Mathematics:

BIOLOGICAL SCIENCES

Genetics - 4 credits

BIO SCI 2200 Genetics (4 credits)

Cell Biology - 4 credits

BIO SCI 2300 Cell Biology (4 credits)

Population Biology - Choose one of the following:

BIO SCI 3100 Community Biology (3 credits)

BIO SCI 3650 General Ecology (5 credits)

BIO SCI 4600 Evolution (3 credits)

BIO SCI 4640 Behavioral Biology (3 credits)

BIO SCI 4660 Plant Population Biology (4 credits)

Biological Diversity - Choose one of the following:

BIO SCI 2600 Ornithology (4 credits)

BIO SCI 2700 Ichthyology (4 credits)

MICROB 3200 Introduction to Medical Microbiology (4 credits)

BIO SCI 3210 Plant Taxonomy (4 credits)

BIO SCI 3250 Parasitology (4 credits)

BIO SCI 3260 Invertebrate Zoology (4 credits)

BIO SCI 3360 Herpetology (4 credits)

BIO SCI 3510 Biology of Fungi (3 credits)

BIO SCI 3660 Mammalogy (4 credits)

BIO SCI 3710 and 3715 Entomology (3 credits total for both courses)

Capstone (Required for graduation) - Choose one of the following:

BIO SCI 4950 and 4952 Undergraduate Research (3 credits)

BIO SCI 4954 and 4956 Honors Undergraduate Research (3 credits)

BIO SCI 4972 Developmental Biology (3 credits)

BIO SCI 4974 Molecular Biology Laboratory (3 credits)
BIO SCI 4976 Molecular Biology (3 credits)
BIO SCI 4980 Cellular Physiology (3 credits)
BIO SCI 4982 Human Inherited Diseases (3 credits)
BIO SCI 4984 Mammalian Reproductive Biology (3 credits)
BIO SCI 4986 Neural Control and Regeneration (3 credits)
BIO SCI 4988 Nerve Cells and Behavior (3 credits)
BIO SCI 4990 Vertebrate Histology and Microscopic Anatomy (5 credits)
BIO SCI 4994 Senior Seminar (3 credits)

Biology Electives (6-11 credits)

Select from any Biological Sciences courses at the 2000 level or higher to reach a **total of 28 credits in Biological Sciences at MU**. Those 28 credits must include a total of at least 14 credits at the 3000 level or higher and one 3000 or higher level course in Biological Sciences at MU with a formal lab or field experience. May not include reading or problems courses or BIO SCI 2100 to meet this requirement.

Elective course options include, in addition to the courses already listed above, the following courses:

BIO SCI 3050 Genetics and Human Affairs (3 credits)
BIO SCI 3700 Animal Physiology (5 credits)
BIO SCI 3750 Basic Microbiology (4 credits)
BIO SCI 4500 Neurobiology (3 credits)

MATHEMATICAL SCIENCES

Calculus - 6 credits

MATH 1400 Calculus for Social and Natural Sciences I (3 credits)
MATH 2100 Calculus for Social and Natural Sciences II (3 credits)

Additional Courses to Complete Graduation and Arts & Science Foundation Requirements for a Bachelor of Science in Biological Sciences at MU:

WRITING INTENSIVE COURSES

Complete one Writing Intensive (WI) course with a grade of C- or better. The WI course must be numbered 3000 or higher and must be a science or math course. WI courses may be used to fulfill other graduation requirements and thus do not necessarily add to the total hours required.

FOREIGN LANGUAGE

Complete either three semesters of a single foreign language (I, II and III = 13 credit hours) or the equivalent. Select languages may require only two semesters (I and II = 12 credit hours). This requirement is waived if four units of a single foreign language were completed in high school. International students from non-English speaking countries do not need to take additional foreign language courses.

DEPTH OF STUDY REQUIREMENTS

All students must complete 9 hours of coursework at the 2000-level or higher in at least two of the three MU Breadth of Study categories (Behavioral Sciences, Social Sciences, Humanities and Fine Arts).

Total Credits Required for Bachelor of Science in Biological Sciences at MU: 120