

**Articulation Agreement  
between  
Moberly Area Community College  
and  
University of Missouri-Columbia**

**Overview:**

This formal program articulation agreement is made and entered into by the University of Missouri Columbia, hereinafter referred to as MU, and the Junior College District of the Moberly Area, Moberly, Missouri, hereinafter referred to as Moberly Area Community College (MACC). By this agreement MACC and MU express a shared commitment to increasing opportunities for student access to and success in higher education. By clarifying transfer policies and procedures that assure articulation between programs, the institutions seek to assist in making a seamless transfer from the associate to the baccalaureate degree.

**Purpose:**

This agreement provides students who have earned an **Associate of Arts degree** at MACC the opportunity to complete a **Bachelor of Arts in Biological Sciences** at MU. Any Moberly Area Community College student who has earned an Associate of Arts degree is guaranteed that MU will accept all designated freshman and sophomore credits and general education credits identified in this agreement and any to be added later and will apply such to the Bachelor of Arts in Biological Sciences degree at MU in a manner consistent with the treatment of native students.

**Conditions of Transfer**

**Section I: Admissions and Matriculation**

MACC students maintaining continuous enrollment under this agreement will be afforded the same treatment and protection as MU native students enrolled under a specific catalog.

Criteria for admission to the Bachelor of Arts in Biology degree program will be based on the MU catalog active in the year that the student first entered MACC.

Criteria for acceptance into MU for transfer students is based upon their past academic performance and the admissions requirements for the Bachelor of Arts in Biological Sciences at MU.

MACC, upon request of students, will provide verification of completed courses to MU through Admissions in 230 Jesse Hall.

The transcripts of students transferring to MU from MACC will be evaluated by Admissions in 230 Jesse Hall.

Transfer students from MACC will have access to financial aid and student services on the same basis as native students.

Minimum grade standards for academic progress and graduation from MACC will be subject to no further review by MU.

MU will apply the same academic progress and graduation standards to MACC transfer students as those applicable to native students at MU.

## Section II: Transfer of Credit

A maximum of 66 hours credit will be accepted by MU from MACC to be applied to the Bachelor of Arts in Biological Sciences.

Transfer students from MACC who have completed the Associate of Arts degree, upon acceptance into the Bachelor of Arts 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 of Arts Degree at MACC

#### Communications - 9 credits

*Must complete each of the following:*

LAL101 English I (3 credits - to count as elective towards the 120 required for graduation)

LAL102 Exposition (3 credits)

SPK101 Public Speaking (3 credits)

#### Literature - 3 credits

#### Humanities – 6 credits

Courses may be selected from Art (except 136 and 225), Drama (except 160 and 299), Literature, Music (except 121), and Philosophy. Selections must represent a minimum of two disciplines.

#### Social and Behavioral Sciences – 9 to 11 credits

*Must select one of the following:*

HST105 American History to 1865 (3 credits) or

PSC103 American Government (5 credits) or

PSC105 Functions & Policies of American Government (3 credits)

Remaining hours may be selected from courses in Economics, Geography, History, Political Science, Psychology, and Sociology (except 150, 160, 170, and 210). The required 9 credits must represent a minimum of two disciplines

#### Mathematics - 3 to 5 credits

*Must complete one of the following:*

MTH 140 College Algebra (3 credits) or

MTH 201 Analytic Geometry & Calculus I (5 credits)

#### Biological Sciences (10 credits)

BIO150 General Zoology (5 credits)

BIO151 Introductory Plant Biology (5 credits)

#### Physical Sciences (10 credits)

PHY121 General Chemistry I (5 credits)

PHY122 General Chemistry II (5 credits)

**Computer Literacy – 3 credits**

CIS101 Computer Essentials (3 credits)

**Life Skills – 1 hour**

SKL101 College Orientation (1 credit)

**General Education Electives – 6 to 10 credits**

**We strongly recommend completion of the Foreign Language sequence at MACC**

FLN101 Elementary Spanish (5 credits)

FLN102 Intermediate Spanish (5 credits)

FLN201 Spanish Readings (3 credits)

**Physical Sciences**

PHY201 College Physics I (5 credits)

PHY202 College Physics II (5 credits)

PHY262 General Astronomy (3 credits)

PHY263 Geology (4 credits)

**Biological Sciences**

The following BIO courses may be selected as electives. They will count toward the 120 hours required to graduate at MU, but will not count toward the 29 total hours in Biological Sciences required for the BA in Biological Sciences at MU:

BIO105 Introductory Conservation Biology (3 credits)

BIO206 Microbiology (4 credits)

**Total credits required for an Associate of Arts degree at MACC: 64**

**Years 3 and 4**

**Bachelor of Arts in Biological Sciences at MU**

Students must complete a total of 120 hours in order to graduate with a Bachelor of Arts in Biological Sciences from the MU College of Arts & Science. It will take approximately 56-62 credit hours beyond the credits from the Associate of Arts degree at MACC to fulfill the requirements specific to the Bachelor of Arts degree at MU. Elective courses may be used, if necessary, to bring the total credit hours at MACC 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 4972 Developmental Biology (3 credits)  
BIO SCI 4974 Molecular Biology Laboratory (3 credits)  
BIO SCI 4976 Molecular Biology (3 credits)  
BIO SCI 4980 Cellular Basis of Disease (3 credits)  
BIO SCI 4982 Human Inherited Disease (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 (2-6 credits)***

Select from any Biological Sciences courses at the 2000 level or higher to reach a **total of 24 credits in Biological Sciences at MU**. 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)

**CHEMISTRY**

CHEM 2100 Organic Chemistry I (3 credits)  
CHEM 2110 Organic Chemistry II (3 credits)

**PHYSICAL SCIENCES**

***Choose one of the following - 4 credits [If not completed at MACC]***

PHYSICS 1210 College Physics I (4 credits) *or*  
GEOL 1100 Principles of Geology (4 credits) *or*  
GEOL 1200 Environmental Geology (4 credits) *or*  
ASTRON 1010 Introduction to Astronomy (4 credits)

#### MATHEMATICAL SCIENCES

*Choose one of the following; 3-5 credits [If not completed at MACC]*

MATH 1400 Calculus for Social and Natural Sciences I (3 credits), *or*

MATH 1500 Analytic Geometry and Calculus (5 credits), *or*

STAT 1400 Statistical Analysis (3 credits), *or*

CS 1040 Introduction to Problem Solving and Programming (3 credits)

#### **Additional Courses to Complete MU Graduation and Arts & Science Foundation Requirements for a Bachelor of Arts 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. **We strongly recommend completion of the Foreign Language requirement at MACC.**

#### DEPTH OF STUDY REQUIREMENT

All students must complete 3 hours of coursework at the 2000-level or higher in one of the following three categories (Behavioral Sciences, Social Sciences, Humanities and Fine Arts).

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

**TERMS OF AGREEMENT:**

This agreement is made and entered into in the academic year 2007-2008 and remains in force unless changed in writing by mutual agreement of both parties. The agreement may be amended at any time with the approval of both parties and is subject to annual review to assure currency with the respective degree requirements. Should either party desire to discontinue this agreement, advance notification of two years will be required.

**SIGNATURES:**

The Junior College District of the Moberly Area, Moberly, Missouri (MACC) and University of Missouri Columbia enter into this program articulation agreement leading from the Associate in Arts degree at MACC to the Bachelor of Arts in Biological Sciences at MU by the affixing of signatures of the chief executive officers of both institutions.

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Evelyn E. Jorgenson, Ph.D.  
President  
The Jr. College District of the Moberly Area  
Moberly, Missouri

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Date

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Brady J. Deaton, Ph.D.  
Chancellor  
University of Missouri - Columbia

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Date