

**ARTICULATION AGREEMENT  
BETWEEN  
THE METROPOLITAN COMMUNITY COLLEGES  
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 Metropolitan Kansas City, Missouri, hereinafter referred to as MCC. By this agreement MCC and MU express a shared commitment to increasing opportunities for student access to and success in higher education. By clarifying transfer policies and procedures which assure articulation between programs, the institutions seek to assist students in making a seamless transfer from the associate to the baccalaureate degree.

**PURPOSE:**

This agreement provides students who have earned an Associate in Arts the opportunity to complete a Bachelor of Science in Soil and Atmospheric Sciences with an emphasis in Environmental Science at MU. Any Metropolitan Community College student who has earned an Associate in Arts is guaranteed that MU will accept designated freshman and sophomore elective credits and all general education credits and will apply such to the Bachelor of Science in Soil and Atmospheric Sciences degree in a manner consistent with the treatment of native students.

**CONDITIONS OF TRANSFER:**

**Section I: Admissions and Matriculation**

MCC 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 acceptance into MU for transfer students is based upon their past academic performance and the admissions requirements for the Bachelor of Science degree in Soil and Atmospheric Sciences.

MCC, upon request of students, will provide verification of completed courses to MU through its Office of Admissions.

The transcripts of students transferring from MCC will be evaluated by the MU Office of Admissions.

Transfer students from MCC 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 MCC will be subject to no further review by MU.

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

## Section II: Transfer of Credit

A maximum of 62 credit hours will be accepted by MU from MCC to be applied to the Bachelor of Science in Soil and Atmospheric Sciences.

Transfer students from MCC, upon acceptance into the Environmental Soil Science emphasis area 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.

### Years 1 and 2

#### Associate in Arts Degree

##### American Institutions – 6 credits

HIST 120	American History I	3 cr. <i>or</i>
HIST 121	American History II	3 cr. <i>and</i>
POLS 135	Intro. to Political Science	3 cr. <i>or</i>
POLS 136	Intro. to American National Politics	3 cr. <i>or</i>
POLS 137	Intro. to State and Local Politics	3 cr.

##### Communications — 9 credits

ENGL 101	Composition and Reading I	3 cr.
ENGL 102	Composition and Reading II	3 cr.
SPDR 100	Fundamentals of Speech	3 cr.

##### Humanities — 9 credits

One course must be in literature or philosophy. 9 cr. (Humanities credit will not be assigned for performance courses)

##### Mathematics – 3 credits

MATH 120	College Algebra	3 cr.
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##### Social and Behavioral Sciences – 6 credits

ECON 210	Principles of Economics I-Macro	3 cr.
SOCI 160	Sociology	3 cr.

**Natural Sciences – 30 credits** (Must include a laboratory)

BIOL 101 General Biology	5 cr.
BIOL 106 General Zoology	5 cr.
CHEM 111 General College Chemistry I	5 cr.
CHEM 112 General College Chemistry II	5 cr.
GEOL 101 General Geology	5 cr.
PHYS 104 General Physics I	5 cr.

**General Education Total      63 cr.**

\* Learning Enhancements from the above courses: One course designated as Writing Intensive and a course designated as a Learning community or Human Diversity.

**Total credits required for the Associate of Arts degree: 62**

**Years 3 and 4**

**University of Missouri – Soil and Atmospheric Sciences (Environmental Science)**

**Departmental Sciences (32-33 credits)**

Quantitative Skills (6 credits)

MATH 1400 Calculus for Social and Natural Sciences	3 cr. FWS
STAT 2530 Statistical Methods in Natural Resources	3 cr. <b>W or</b>
STAT 1400 Statistical Analysis	3 cr. FWS

Biological Science (14-15 credits)

BIO SCI 1200 - General Botany	5 cr.
BIO SCI 1500 - Introduction to Biological Systems	5 cr.
BIO SCI 3650 - General Ecology	5 cr. <b>or</b>
FOR 4320 - Forest Ecology	4 cr.

Natural Resources (6 credits)

NATR 1070 Ecology and Renewable Resource Management	3 cr. W
NATR 4320 Hydrologic and Water Quality Modeling	3 cr. W

Social Sciences (6 credits)

RUR SOC 2010 - Leadership in Today's World	3 cr. <b>or</b>
RUR SOC 2225 - Social Processes	3 cr.
AG EC 4356 - Environmental Law	3 cr. <b>or</b>
NATR 4353 - Natural Resource Policy/Administration	3 cr.

**Departmental Requirements (17 cr)**

Soil and Atmospheric Sciences (6 credits)

ATM SCI 1050 - Introduction to Meteorology	3 cr. FW
SOILS 2100 - Introduction to Soil Science	3 cr. FW

Computer Science (3 credits)

NATR 1080 - Computer Applications in Natural Resources	2 cr. FW
NATR 1090 - Beginning GIS for Natural Resources	1 cr. FW

Capstone Experience (3 credits)

NATR 4970 - Natural Resources Practicum	3 cr. W
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Additional Emphasis Area Requirements (5 credits)

SOILS 2106 - Introduction to Soil Science Lab	2 cr. FW
SOILS 3290 - Soils and the Environment	3 cr. F

**Concentration Specific (21 - 23 credits)**

Water Quality Track

F&W 3400 - Natural Resources and Water Quality (required)	3 cr.
NATR 4940 - Internship in Natural Resources (required)	3 cr.
<u>Select 5 classes from the following (must take courses from at least two departments)</u>	

ATM SCI 4510 - Remote Sensing	3 cr.
ATM SCI 4400 - Micrometeorology	3 cr.
ATM SCI 3600 - Climates of the World	3 cr.
FOR 4360 - Forest Information Systems	3 cr.
F&W 4100 - Limnology	3-4 cr.
F&W 4800 - Environmental Toxicology	3 cr.
F&W 8460 - Wetland Ecology	3 cr.
CIV ENG 3702 - Hydrology	3 cr.
CIV ENG 8260 - Water and Wastewater Residuals Handling, Treatment & Disposal	3 cr.
BIO ENG 4150 - Soil and Water Conservation Engineering	3 cr.
SOILS 4305 - Environmental Soil Physics	3 cr.
SOILS 4308 - Soil Conservation	3 cr.
SOILS 4312 - Environmental Soil Microbiology	3 cr.
SOILS 4318 - Environmental Soil Chemistry	3 cr.
SOILS 4313 - Soil Fertility and Plant Nutrition	3 cr.
SOILS 4320 - Genesis of Soil Landscapes	4 cr.
GEOL 4110 - Karst Hydrology	3 cr.
GEOL 4100 - Hydrogeology	3 cr.
ENT 4720 - Aquatic Entomology	3 cr.
ASM 4420 - Surface Water Management	3 cr.

Land Management Track

F&W 3600 - Introduction to Conservation Biology (required)	3 cr.
NATR 4940 - Internship in Natural Resources (required)	3 cr.
<u>Select 5 classes from the following list (must take courses from at least two departments)</u>	
ATM SCI 4520 - Meteorology of the Biosphere	3 cr.
ATM SCI 4510 - Remote Sensing	3 cr.
ATM SCI 4400 - Micrometeorology	3 cr.
ATM SCI 3600 - Climates of the World	3 cr.



**Electives (12-15 credits)**

*Remaining hours from university, quantitative, science, and department to complete 128 credit hours total requirement.*

\* One course at MU must be designated as Writing Intensive.

**Total credits required for the University of Missouri: 66**

**GRAND TOTAL**

**128 credits**

**TERMS OF AGREEMENT:**

This agreement is made and entered into in the academic year 2004-2005 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 regular 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 Metropolitan Kansas City, Missouri (MCC) and University of Missouri Columbia enter into this program articulation agreement leading from the Associate in Arts to the Bachelor of Science in Soil and Atmospheric Sciences with an emphasis in Environmental Soil Science by the affixing of signatures of the chief executive officers of both institutions.

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Wayne E. Giles, Ph.D.  
Chancellor  
The Jr. College District of Metropolitan  
Kansas City, 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