

**ARTICULATION AGREEMENT  
BETWEEN  
THE METROPOLITAN COMMUNITY COLLEGES  
AND  
UNIVERSITY OF MISSOURI**

**OVERVIEW:**

This formal program articulation agreement is made and entered into by the University of Missouri, 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, Environmental & Atmospheric Sciences** with an emphasis in Atmospheric 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, Environmental & 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, Environmental & 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

While there is no maximum number of credit hours that can be transferred by a student from MCC to MU, 30 of the last 36 hours of credit must be completed with MU authored courses.

Transfer students from MCC, upon acceptance into the Atmospheric 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.

### **MCC - Associate in Arts Degree**

#### **American Institutions – 6 credits**

|   |                  |
|---|------------------|
| HIST 120 American History I                         | 3 cr. <b>or</b>  |
| HIST 121 American History II                        | 3 cr. <b>and</b> |
| POLS 135 Introduction to Political Science          | 3 cr. <b>or</b>  |
| POLS 136 Introduction to American National Politics | 3 cr. <b>or</b>  |
| POLS 137 Introduction 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**

*Complete one 3-credit course in each of any three different areas. One of the courses must be in literature or philosophy.*

Art history-any course  
Literature-any course  
HIST 133 Western Civilization I or  
HIST 134 Western Civilization II  
Humanities-any course  
MUSI 108 Music Appreciation or  
MUSI 116 Evolution of Jazz  
MUSI 160 Music of the World's Cultures  
Philosophy-any course\*\*  
SPDR 112 Oral Interpretation of Literature  
SPDR 114 Theater and Western World  
SPDR 128 Introduction to Film

#### **Mathematics – 18 credits**

|  |         |
|--|---------|
| MATH 150 PreCalculus                         | 5 cr.   |
| MATH 180 Analytical Geometry and Calculus I  | 5 cr.   |
| MATH 190 Analytical Geometry and Calculus II | 5 cr.   |
| MATH 115 Statistics                          | 3 cr.** |

*\*\*Stat 1300 is the base requirement for BS degree but there is no equivalent course at MCC. Math 115 will be accepted, but it is strongly suggested that students complete either Stat 1300 or Stat 1400 at the University of Missouri, or an equivalent course at another institution.*

**Physical Sciences – 15 credits** (Must include laboratory)

|                                      |       |
|--------------------------------------|-------|
| PHYS 220 Engineering Physics I       | 5 cr. |
| PHYS 221 Engineering Physics II      | 5 cr. |
| CHEM 111 General College Chemistry I | 5 cr. |

**Social and Behavioral Sciences – 6 credits**

|  |       |
|--|-------|
| PSYC 140 General Psychology              | 3 cr. |
| ECON 210 Principles of Economics I-Macro | 3 cr. |

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

**Minimum credits required for the Associate in Arts degree: 62****University of Missouri – Soil, Environmental & Atmospheric Sciences with and emphasis in Atmospheric Science****Departmental Quantitative/Computer Skills – 12 credits**

|   |                   |
|---|-------------------|
| Math 2200 Calculus III                                | 3 cr. FW          |
| Math 4199 Differential Equations                      | 3 cr. FWS         |
| Atm Sci 4800 Numerical Methods in Atmospheric Science | 3 cr. F <b>or</b> |
| Math 4300 – Numerical Analysis                        | 3 cr. F           |
| AGR 1120 Computing and Information Systems I          | 3 cr. <b>or</b>   |
| Comp Sci 1040 Intro to Problem Solving & Programing   | 3 cr. <b>or</b>   |
| See advisor for GIS options                           |                   |

**Soil, Environmental & Atmospheric Sciences – 9 credits**

|   |                    |
|---|--------------------|
| Atm Sci 1050 - Introduction to Meteorology          | 3 cr. FW           |
| Soils 2100 - Introduction to Soil Science           | 3 cr. FW <b>or</b> |
| Soils 3290 - Soils and the Environment              | 3 cr. F <b>or</b>  |
| Env Sc 1100 – Introduction to Environmental Science | 3 cr. F            |
| Atm Sci 4990 – Daily Analysis and Forecasting       | 3 cr. W (WI)       |

**Communications – 3 credits**

Choose one from the following (See your advisor for other courses)

|  |           |
|--|-----------|
| Engl 2030 - Professional Writing                   | 3 cr. FWS |
| Comm 3575 - Business and Professional Speech Comm. | 3 cr. F   |
| Comm 3576 - Persuasive Speaking                    | 3 cr. FW  |
| Ag Jour 3210 - Fundamentals of Communications      | 3 cr.     |

Those desiring a career in broadcast meteorology should consider the following:

*(See your advisor for more offerings)*

|  |       |
|--|-------|
| Thea 1400 - Acting for Non-majors                  | 3 cr. |
| Comm 2100 - Media communication in Society         | 3 cr. |
| Comm 2315 - Basic Audio Production and Performance | 3 cr. |
| Comm 3390 - Television Studio Production           | 3 cr. |
| Comm 3395 - Television Field Production            | 3 cr. |

**Atmospheric Science Emphasis Area Requirements – 33–38 credits**

|  |         |
|--|---------|
| AtmSci 2720...Weather Briefing           | 1 cr. S |
| AtmSci 4310 - Atmospheric Thermodynamics | 4 cr. F |
| AtmSci 4320 - Atmospheric Dynamics       | 4 cr. S |
| AtmSci 4550 - Atmospheric Physics        | 3 cr. F |

|                                       |         |
|---------------------------------------|---------|
| AtmSci 4590 - Radar Meteorology.      | 3 cr. S |
| AtmSci 4710 - Synoptic Meteorology I  | 4 cr. F |
| AtmSci 4720 - Synoptic Meteorology II | 4 cr. S |

*Choose courses from the following sample applied topics when offered*

|  |         |
|--|---------|
| AtmSci 3600 - Climates of the World                  | 3 cr. S |
| AtmSci 4110 - Broadcast Meteorology                  | 2 cr.   |
| AtmSci 4350 - Mesoscale Meteorology and Dynamics     | 3 cr.   |
| AtmSci 4500 - Instrmnt., Exprmnt., and Observ.       | 3 cr.   |
| AtmSci 4510 - Remote Sensing for Met. and Natr. Res. | 3 cr. F |
| AtmSci 4520 - Environmental Biophysics               | 3 cr.   |
| AtmSci 4400 - Micrometeorology                       | 3 cr.   |
| AtmSci 4650 - Long Range Forecasting                 | 3 cr.   |
| AtmSci 4730 - Advanced Forecasting Laboratory        | 3 cr.   |

*Additional credit in meteorology*

|   |                  |
|---|------------------|
| AtmSci 3000 - Independent Study         | 1-3 cr. arranged |
| AtmSci 4949 - Internship in Meteorology | 1-6 cr. arranged |
| ChemEng 4311 – Chemodynamics            | 3 cr.            |
| ChemEng 4312 - Air Pollution Control    | 3 cr.            |
| Geol 4100 – Hydrogeology                | 3 cr.            |
| Geol 2200 – Oceanography                | 3 cr.            |

### **Electives**

*Remaining hours from university, quantitative, science, and department to complete 128 credit hours total requirement. See advisor for list of suggested electives.*

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

**Total credits required for the BS in Soil, Environmental, and Atmospheric Sciences with an emphasis in Atmospheric Science: 128**

**TERMS OF AGREEMENT:**

This agreement is made and entered into in the academic year 2011-2012 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 and University of Missouri enter into this program articulation agreement leading from the Associate in Arts to the Bachelor of Science in Soil, Environmental & Atmospheric Sciences with an emphasis in Atmospheric Science by the affixing of signatures of the chief executive officers of both institutions.

\_\_\_\_\_  
Thomas L. Payne, Ph.D.  
Dean, College of Agriculture, Food, & Natural Resources  
University of Missouri

\_\_\_\_\_  
Date

\_\_\_\_\_  
Brady J. Deaton, Ph.D.  
Chancellor  
University of Missouri

\_\_\_\_\_  
Date

\_\_\_\_\_  
Mark S. James  
Chancellor  
Metropolitan Community College

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Date