

MCC to MU Transfer Agreement for BS in Soil & Atmospheric Science

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 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.

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 Introduction to Political Science	3 cr. <i>or</i>
POLS 136 Introduction to American National Politics	3 cr. <i>or</i>
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

One course must be in literature or philosophy performance courses)	9 cr. (Humanities credit will not be assigned for
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Mathematics – 16 credits

MATH 120 College Algebra	3 cr.
MATH 180 Analytical Geometry and Calculus	5 cr.
MATH 190 Analytical Geometry and Calculus II	5 cr.
MATH 115 Statistics	3 cr.

Natural 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.

General Education Total **61 cr.**

GENERAL EDUCATION ELECTIVES: 1 credit

Electives for a degree total of 62 credits as required for the degree.

* 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 (Atmospheric Science)

Departmental Quantitative/Computer Skills – 12 credits

Math 2300 Calculus III	3 cr. FW
Math 4100 Differential Equations	3 cr. FWS
Atm Sci 4800 Numerical Methods in Atmospheric Science	3 cr. F
AGR 1111 Computing and Information Systems I	3 cr. <i>or</i>
NATR 1080 Computer Applications in Natural Resources	2 cr. FW
NATR 1090 Introduction to Geographic Information	1 cr. FW

Soil and Atmospheric Sciences – 9 credits

Atm Sci 1050 - Introduction to Meteorology	3 cr. FW <u>or</u>
Atm Sci 1110 - Introduction to Atmospheric Science	3 cr. W
Soils 2100 - Introduction to Soil Science	3 cr. FW <u>or</u>
Soils 3290 - Soils and the Environment	3 cr. F
Atm Sci 4990 – Daily Analysis and Forecast Interpretation	3 cr. W (WI) (Required for graduation)

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. W
AtmSci 4710 – Synoptic Meteorology I	4 cr. F
AtmSci 4720 – Synoptic Meteorology II	4 cr. W
AtmSci 4500 - Instrmnt., Exprmnt., and Observ.	3 cr. bian. or
AtmSci 4510 - Remote Sensing for Met. and Nat. Res.	3 cr. biannually
AtmSci 4550 - Atmospheric Physics	3 cr. biannually
AtmSci 4350 - Mesoscale Meteorology and Dynamics	3 cr.
AtmSci 4310 - Atmospheric Thermodynamics	4 cr. F
AtmSci 4320 - Atmospheric Dynamics	4 cr. W

Additional credit in meteorology (choose two) (4 - 9 cr)

AtmSci 3000 - Independent Study	1-3 cr. arranged
AtmSci 4050 - Fundamentals of Meteorology	3 cr.
AtmSci 3600 - Climates of the World	3 cr. biannually
AtmSci 4949 - Internship in Meteorology	1-6 cr. arranged

Choose one course from the following sample applied topics (3 cr.)

(See your advisor for more choices)

AtmSci 4520 - Meteorology of the Biosphere	3 cr. biannually
AtmSci 4400 – Micrometeorology	3 cr. biannually
AtmSci 4650 - Long Range Forecasting	3 cr. biannually
Geol 4100 – Hydrogeology	3 cr.
Geol 2200 – Oceanography	3 cr.
ChemEng 4311 – Chemodynamics	3 cr.
ChemEng 4312 - Air Pollution Control	3 cr.

Electives – 4–9 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

