

Meteorology Minor in the Department of Earth and Atmospheric Sciences (EAS)

The meteorology minor has not changed since 2013, so this check sheet is safe for most catalogs 2013-2014 and onward.

Meteorology is the science of the atmosphere. Meteorologists are employed in operational meteorology, meteorological research, applied meteorology, and the media. Meteorologists study global weather and climate, and investigate the influence that human beings exert on earth’s climate. The Meteorology Computer Laboratory provides access to real-time weather data and analysis software supported by the UNIDATA Program. Contact the Earth and Atmospheric Sciences Department for additional information: <https://www.msudenver.edu/earth-atmospheric-sciences/meteorology/>.

Most of our classes are not offered every semester. Please refer to the “Semester” column to learn when courses are intended to be offered. F is fall, S is spring, and Su is summer.

Minor in Meteorology

Required Meteorology Courses – 7 hours	Prerequisites	Semester	Credit Hours
___ MTR 1400 Weather and Climate	(none)	F, S, Su	3
___ MTR 2020 Weather and Climate Lab	Pre/Coreq MTR 1400, <i>Algebra</i> or ↑	F	1(lab)
___ MTR 3400 Synoptic Meteorology	MTR 2020	F	3

Approved Electives* – 12 hours

Some new courses might not be coded into Degree Works to count towards the minor electives. Your advisor can help you get those courses to count in the correct spot.

___ MTR 1600 Global Climate Change	(None)	F, S, Su	3
___ MTR 2040 Computer Applications for MTR	MTR 1400	S	1 (lab)
___ MTR 2410 Weather Observing Systems	MTR 2020	F23,S25,F26	3(w/lab)
___ MTR 3100 Air Pollution	MTR 2020 OR ENV 1200	Occasionally	3
___ MTR 3330 Climatology	MTR 1400 or GEG 1100 + quant lit	F23,S25,F26	3(w/lab)
___ MTR 3340 Climate Change Science	MTR 1400 or MTR 1600	F23,F24,?	3
___ MTR 3410 Weather Analysis Techniques	MTR 3400	S	3(w/lab)
___ MTR 3420 Radar and Satellite Meteorology	MTR 2020 and MTH 1110	F24,F26	3(w/lab)
___ MTR 3500 Hazardous Weather	MTR 1400 or MTR 2020 or AES 1400	S24,S26	3
___ MTR 3710 Meteorology Internship	See MTR Advisor	F, S, Su	1-6
___ MTR 3777 Field Observations of Severe Weather	MTR 2410, MTR 3410	Some Mays	3(field)
___ MTR 4210 Forecasting Laboratory (repeatable)	MTR 3410	F23,F24,S25	1(lab)

Some Calculus-based courses can also count towards the minor:

___ MTR 3430 Atmospheric Thermodynamics	MTR 2020,MTH 1410,PHY 2010or2311	S24,F25,S27	3
___ MTR 3440 Physical Meteorology	MTR 2020, MTH 2410, PHY 2311/12	S23,F24,S26	3
___ MTR 3450 Dynamic Meteorology	MTR 2020,MTH 2410,PHY 2311	F23,S25,F26	3
___ MTR 4400 Advanced Synoptic Meteorology	MTR 2410, MTR 3410, MTR 3450	S24,F25,S27	4(w/lab)
___ MTR 4500 Mesometeorology	MTR 3410 and MTH 1410	S23,S25,S27	3

TOTAL HOURS – 19

IMPORTANT CONSIDERATIONS FOR METEOROLOGY MINORS:

- AES 1400 Aviation Weather is *not* an approved Meteorology Minor elective.
- If a course listed above isn’t fulfilling an elective on the Degree Progress Report, please see an advisor to get that fixed. Some courses are newer than the minor and haven’t been coded in.

Updated March 17, 2023