

**METEOROLOGY PROGRAM****Department of Earth and Atmospheric Sciences**

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: [www.msudenver.edu/eas](http://www.msudenver.edu/eas) or <https://msudenver.edu/eas/meteorology-program/>.

**Minor in Meteorology****Required Meteorology Courses – 7 hours**

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

**Approved Electives\* – 12 hours**

___	MTR 1600	Global Climate Change	(None)	F, S, Su	3
___	MTR 2410	Weather Observing Systems	MTR 2020	S	3 (with lab)
___	MTR 3100	Air Pollution	MTR 2020 OR ENV 1200	F21, F23	3
___	MTR 3330	Climatology	MTR 2020 or (GEG 1100 + quant lit)	S	3 (with lab)
___	MTR 3410	Weather Analysis Techniques	MTR 3400	S	3 (with lab)
___	MTR 3420	Radar and Satellite Meteorology	MTR 2020 and MTH 1110	F22	3 (with lab)
___	MTR 3500	Hazardous Weather	MTR 1400 or MTR 2020 or AES 1400	Occasionally	3
___	MTR 3710	Meteorology Internship	See MTR Advisor	F, S, Su	3 – 6
___	MTR 3777	Field Observations of Severe Weather	MTR 2410, MTR 3410	Su (May)	3 (field)
___	MTR 4210	Forecasting Laboratory (repeatable)	MTR 3410	Occasionally	1 (lab)
___	MTR 4500	Mesometeorology	MTR 3410 and MTH 1410	S23, S25	3
___	AES 3460	Weather and Aircrews**	see AES Dept.	F, S	3

\*Some Calculus-based courses are also available (see below).

\*\*This course is required for some aviation technology majors. For this course to count towards the meteorology minor, students must consult with an advisor in the Aviation and Aerospace Science Department.

The following courses may also be used as electives, but have additional Math and Physics pre-requisites:

___	MTR 3430	Atmospheric Thermodynamics	MTR 2020, MTH 2410, PHY 2311/21	F22, S24	3
___	MTR 3440	Physical Meteorology	MTR 2020, MTH 2410, PHY 2311/12	F21, S23	3
___	MTR 3450	Dynamic Meteorology	MTR 2020, MTH 2410, PHY 2311	S22, F23	3
___	MTR 4400	Advanced Synoptic Meteorology	MTR 2410, MTR 3410, MTR 3450	F22, S24	4 (with lab)

**TOTAL HOURS – 19**

**IMPORTANT CONSIDERATIONS FOR METEOROLOGY MINORS:**

- Students considering a Meteorology Minor must consult with a Meteorology advisor to develop an academic plan.
- The normal time for completion of the Meteorology Minor is two years (4 semesters). This may vary depending on a student's Meteorology background such as approved transfer courses, professional experience or military training.
- AES 1400 Aviation Weather is *not* an approved Meteorology Minor elective.
- AES 3460 Weather for Aircrews *is* an approved Meteorology Minor elective. See note above.