



**COLLEGE OF
LETTERS,
ARTS AND
SCIENCES**

Four-Year Degree Plan: Bachelor of Science in Meteorology with Applied Meteorology Concentration

Catalog Year: 2023-2024

This is a degree plan for completing a Bachelor of Science in Meteorology with Applied Meteorology Concentration (starting with College Algebra) in eight semesters. This document is meant to be used as a guide for planning purposes only and is intended for use in consultation with a Professional Academic or Faculty advisor. **Students are responsible for consulting advisors and the [MSU Denver catalog](#) for degree requirements.**

Year One					
Semester 1			Semester 2		
Fall		Credits	Spring		Credits
ENG 1010	Composing Arguments	3	ENG 1020	Research and Argument Writing	3
MTH 1110	College Algebra	4	MTH 1120	College Trigonometry	3
MTR 1400	Weather and Climate	3	MTR 2020	Weather and Climate Lab	1
--	General Studies	3	MTR 2040	Computer Applications in MTR	1
--	General Studies	3	CHE 1800	General Chemistry	4
			--	General Studies	3
Semester 1 Total		16	Semester 2 Total		15

Year Two					
Semester 3			Semester 4		
Fall		Credits	Spring		Credits
MTR 3400	Synoptic Meteorology	3	MTR 3410	Weather Analysis Techniques	3
MTH 1410	Calculus I	4	MTR 2410	Weather Observing Systems	3
--	General Studies	3	--	College or General Physics I	4
--	General Studies	3	--	College or General Physics I Lab	1
			--	General Studies or Minor Course	3
Semester 3 Total		13	Semester 4 Total		14

Year Three					
Semester 5			Semester 6		
Fall		Credits	Spring		Credits
MTR 3430	Atmospheric Thermodynamics	3	MTR 3500	Hazardous Weather	3
MTH 2540	Python	4	MTR 4600	Meteorology Research Seminar	3
--	General Studies or Minor Course	3	--	Meteorology Elective	3
--	General Studies or Minor Course	3	MTH 1210	Into to Statistics	4
--	General Studies or Minor Course	3	--	General Studies or Minor Course	3
Semester 5 Total		16	Semester 6 Total		16

Semester	Summer	Credits
MTR 3777	Field Obs of Severe Weather	3
Summer Semester Total		3

Year Four					
Semester 7			Semester 8		
Fall		Credits	Spring		Credits
MTR 3330	Climatology	3	--	Meteorology Elective	3
MTR 3420	Radar & Satellite Meteorology	3	--	Minor Course	3
--	Meteorology Elective	3	--	Elective	3
--	Minor Course	3	--	Elective	3
--	Elective	3			
Semester 7 Total		15	Semester 8 Total		12

Program Total: 120

Students must complete all courses with a grade of C- or better. Students must also complete a Mathematics minor for the Meteorology major.

Advisor Contact Information: Dr. Keah Schuenemann, kschuene@msudenver.edu, 303-615-0780, or visit [CLAS Academic Advising](#)

Detailed Course Listing

Core Requirements		
MTR 1400	Weather and Climate	3
MTR 2020	Weather & Climate Lab for Science	1
MTR 2410	Weather Observing Systems	3
MTR 3330	Climatology	3
MTR 3400	Synoptic Meteorology	3
MTR 3410	Weather Analysis Techniques	3
MTR 3420	Radar & Satellite Meteorology	3
MTR 3430	Atmospheric Thermodynamics	3
MTR 3440	Physical Meteorology	3
MTR 3450	Dynamic Meteorology	3
MTR 4400	Advanced Synoptic Meteorology	4
MTR 4500	Mesometeorology	3
MTR 4600	Meteorology Research Seminar	3
Core Requirements Total		38

Specific Degree Requirements		
--	Required Mathematics Minor	24
--	Meteorology Electives	5
Additional Course Requirements		
CHE 1800	General Chemistry I	4
PHY 2311	General Physics I	4
PHY 2321	General Physics I Lab	1
PHY 2341	General Physics II Lab	1
Specific Degree Requirements Total		39

Program Totals

General Studies Requirements	33
Major Core Requirements	38
Specific Degree Requirements	39
Unrestricted Electives	10
Total to Graduate	120



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