

Four-Year Degree Plan: Bachelor of Science in Meteorology with Professional Concentration Catalog Year: 2023-2024

This is a degree plan for completing a Bachelor of Science in Meteorology with Professional 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.**

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Semester 1	Fall	Credits
ENG 1010	Composing Arguments	3
MTH 1110	College Algebra	4
MTR 1400	Weather and Climate	3
	General Studies	3
	General Studies	3
	Semester 1 Total	16

ır	r One		
	Semester 2	Spring	Credits
	ENG 1020	Research and Argument Writing	3
	MTH 1120	College Trigonometry	3
	MTR 2020	Weather and Climate Lab	1
	MTR 2040	Computer Applications in MTR	1
	CHE 1800	General Chemistry	4
		General Studies	3
		Semester 2 Total	15

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Semester 3	Fall	Credits
MTR 3400	Synoptic Meteorology	3
MTH 1410	Calculus I	4
	General Studies	3
	General Studies	3
	Semester 3 Total	13

ır	r Two		
	Semester 4	Spring	Credits
	MTR 3410	Weather Analysis Techniques	3
	MTR 2410	Weather Observing Systems	3
	MTH 2410	Calculus II	4
	PHY 2311	General Physics I	4
	PHY 2341	General Physics Lab I	1
		Semester 4 Total	15

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Semester 5	Fall	Credits
MTR 3430	Atmospheric Thermodynamics	3
MTH 2540	Python	4
MTH 2420	Calculus III	4
PHY 2341	General Physics Lab II	1
	General Studies	3
	Semester 5 Total	15

ır '	r Three			
	Semester 6	Spring	Credits	
	MTR 3440	Physical Meteorology	3	
	MTR 3500	Hazardous Weather	3	
	MTR 4600	Meteorology Research Seminar	3	
	MTH 3420	Differential Equations	4	
		Semester 6 Total	13	

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

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Semester 7	Fall	Credits
MTR 3330	Climatology	3
MTR 3420	Radar & Satellite Meteorology	3
MTR 3450	Dynamic Meteorology	3
MTH 3210	Probability and Statistics	4
	Elective	3
	Semester 7 Total	16

ir Four			
	Semester 8	Spring	Credits
	MTR 4400	Adv Synoptic Meteorology	4
	MTR 4500	Mesometeorology	3
	-	Elective	3
	-	Elective	4
		Semester 8 Total	14

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 Scien.	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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