

Welcome to the Earth, Environmental, and Atmospheric Sciences Department at WKU
Meteorology -- The Dynamic Discipline

Suggested Four-Year Degree Program in the Professional Meteorology Major - Effective Fall 2023

<i>Freshman Semester #1</i>	Credits	<i>Freshman Semester #2</i>	Credits
METR 121 (Colonnade – Science Lab)	3	METR 122 Aviation Meteorology	3
ENG 100 (Colonnade - Writing)	3	MATH 137 Calculus II	4
MATH 136 (Colonnade - Quantitative)	4	HIST 101 or 102 (Colonnade - History)	3
GEOG 110 (Colonnade – Social)	3	COMM 145 (Colonnade – Communication)	3
GEOG 175 Freshman Experience	<u>2</u>	Literary Studies (ENG 200)	<u>3</u>
	15		16
 <i>Sophomore Semester #3</i>		 <i>Sophomore Semester #4</i>	
MATH 237	4	MATH 331	3
CS 170 Problems/Programming	3	METR 324 Weather Analysis and Forecasting	3
GISC 316 Fundamentals of GIS	4	Foreign Language or University Elective	3
GEOG 226 (Colonnade – Systems)	<u>3</u>	Arts and Humanities (Colonnade)	3
	14	University Elective	<u>3</u>
			15
 <i>Junior Semester #5</i>		 <i>Junior Semester #6</i>	
METR 431 Dynamic Meteorology I	3	METR 433 Dynamic Meteorology II	3
GEOG 300 (Writing in the Geosci.)	3	METR 438 Physical Meteorology	3
METR 335 Sat/Rad Meteorology	3	Colonnade Connections – Local/Global	3
PHYS 255/256 (Colonnade – Science)	<u>5</u>	PHYS 265/265	5
	14	GEOG 499 Professional Preparation	<u>1</u>
			15
 <i>Senior Semester #7</i>		 <i>Senior Semester #8</i>	
METR 432 Synoptic Meteorology	3	METR 437 Mesoscale Meteorology	3
METR 325 Met Instruments	3	GEOG 391 Spatial Data Analysis	4
University Elective	3	University Elective	3
Colonnade Connections - Cultural	3	Meteorology Elective	3
METR 475 or METR Elective	<u>3</u>	METR 475 or METR Elective	<u>3</u>
	15		16

120 Hours total are required in the program, with 42 hours at the 300/400 level. Students that start below MATH 136 (MATH 116 – College Algebra or MATH 117 – Trigonometry) in their first semester may need an extra year to complete the degree. Talk with the Meteorology program advisor.

Summer courses, including METR 425, and other independent research opportunities (METR 475), can reduce the number of hours required in the regular semesters.

Required and elective courses can be moved from semester to semester to take advantage of courses when offered.

Meteorology students often pursue certificates in Geographic Information Systems or Emergency Management/Disaster Science. These courses are taken in place of University Electives.

The WKU Colonnade Program requires a minimum of 39 hours, with several required courses in the Meteorology program that can be double-counted. In addition, WKU requires language proficiency at the novice-high level, which typically is LANGUAGE 102 (First year, second semester course level)