

*Welcome to the Geography and Geology Department at Western Kentucky University*  
*Meteorology -- Dynamic Atmospheric Sciences for the 21<sup>st</sup> Century*

Effective Fall 2007

The B.S. Meteorology program requires a minimum of 49.5 semester hours of meteorology, geography, and computer science courses. A minor program is not required. Other required courses in physics and mathematics total an additional 26 semester hours. Students majoring in meteorology will learn the key concepts and skills necessary to qualify as a meteorologist for the National Weather Service, and to meet the professional standards of the American Meteorological Society. Students who wish to pursue a career as a TV broadcaster and be certified as a “Certified Broadcast Meteorologist” by the American Meteorological Society will also need to complete the B.S. Meteorology program. In addition to preparing students for immediate employment as meteorologists, the combination of advanced theoretical and applied coursework as well as experience with meteorological instrumentation and computer programming will provide a foundation for students who wish to pursue graduate school in the atmospheric sciences. Students will become more directly involved in faculty-sponsored research, increased co-authorship of research articles, and increased participation in professional meetings. Successful completion of this program will allow students to meet qualification standards for the GS-1340: Meteorology Series of the National Weather Service and qualification standards of the American Meteorological Society.

**Professional Extended Major Concentration (#578):**

Core Requirements .....	30 hours
GEOG 100 or GEOL 102 or GEOL 111, GEOG 101 or 110, 121, 217, 300, 391 422, 424, 499, and CS 240	
Professional Courses.....	19.5 hours
GEOG 325, 431, 432, 433, 437, 438, and CS 245.	
Program Total	49.5 hours
Additional Program Requirements .....	26 hours
MA 126, 227, 327, 331, PHYS 255, 256, 265, and 266	

Recommended Electives	Title	Cr. Hrs.
GEOG 122	Aviation Meteorology	3
GEOG 222	Observational and Analytical Meteorology	3
GEOG 310	General Hydrology	3
GEOG 426	Applied Meteorology	3
GEOG 455	Global Environmental Change	3
GEOG 475	Independent Supervised Research	1-3

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Suggested Four-Year Degree Program in the Meteorology major

<i>Freshman Semester #1</i>		Credits	<i>Freshman Semester #2</i>		Credits
GEOG 121		3	GEOG 100 or GEOL 102 or GEOL 111		3
GEOG 101 or 110	(Gen. Ed. E or C)	3	MATH 227		4.5
MATH 126	(Gen. Ed. D)	4.5	PHYS 255/256	(Gen. Ed. D)	5
ENG 100	(Gen. Ed. A)	3	General Elective		3
UC 175	(Freshman Experience)	<u>2</u>	Public Speaking	(Gen. Ed. A)	<u>3</u>
		15.5			18.5
 <i>Sophomore Semester #3</i>			 <i>Sophomore Semester #4</i>		
MATH 327		4	GEOG 217		4
PHYS 265/266		5	GEOG 300		3
ENG 300	(Gen. Ed. A)	3	MATH 331		3
Humanities	(Gen. Ed. B)	3	General Elective		3
HIST 119 or 120	(Gen. Ed. C)	<u>3</u>	CS 230		<u>3</u>
		18			16
 <i>Junior Semester #5</i>			 <i>Junior Semester #6</i>		
GEOG 431		3	GEOG 433		3
GEOG 438		3	GEOG 422		4
GEOG 391		3	Social Sciences/Culture	(Gen. Ed. C or E)	3
CS 245		1.5	CS 240		3
Physical Education	(Gen. Ed. F)	2	Literature	(Gen. Ed. B)	<u>3</u>
Foreign Language	(Gen. Ed. A)	<u>3</u>			16
		15.5			
 <i>Senior Semester #7</i>			 <i>Senior Semester #8</i>		
GEOG 432		3	GEOG 437		3
GEOG 325		3	GEOG 424		3
CHEM 120/121	(Gen. Ed. D)	5	GEOG 499		1
Humanities	(Gen. Ed. B)	3	GEOG 475		1-3
General Elective		<u>3</u>	General Elective		3
		17	Social Sciences	(Gen. Ed. C)	<u>3</u>
					14-16

128 Hours total are required in the program, with 42 hours at the 300/400 level.

Summer courses, including Study Abroad, Field Camps, and other independent research opportunities, 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.