

METEOROLOGY, B.S.

The BS Meteorology program conforms to the American Meteorological Society's Guidelines for a B.S. Degree in Meteorology/Atmospheric Science. It satisfies the National Weather Service GS-1340 requirements and adequately prepares a student for the pursuit of an advanced degree. Our graduates are diversely employed, some going onto careers in education, administration, and research. Many continue on to pursue advanced degrees at major research institutions, work for government agencies or begin careers in the private sector. More than half our graduates work in operational forecasting—just a few of their employers include The Weather Channel, Accu-Weather, Weather Services Corporation, and numerous branches of the National Weather Service. Several of grads work as on-air meteorologists at TV stations across the U.S. Our graduates enter the workforce as knowledgeable, skilled and competent professionals.

Major in Meteorology, BS

Code	Title	Hours
ESCI 348	Broadcast Meteorology and ESCI 442 Advanced Weather Analysis/Forecasting Practicum are recommended skill courses. Completing these courses will not impact your major GPA.	

REQUIRED EARTH SCIENCE COURSES

ESCI 241	Meteorology (C- minimum)	4
ESCI 282	FORTTRAN Programming for Earth Sciences Applications	3
ESCI 340	Cloud Physics & Precip Process	3
ESCI 341	Atmospheric Thermodynamics	3
ESCI 342	Atmospheric Dynamics 1	3
ESCI 343	Atmospheric Dynamics 2	3
ESCI 345	Atmospheric Radiative Transfer	3

Scientfc Prgm Analys Vis, GIS Apps for Earth Sci or GIS - Choose 1 of the following: 3

ESCI 386	Sci Prg Lang:	
ESCI 281	GIS Applications for Earth Sci	
GEOG 295	GIS I: Vector Data Analysis	
ESCI 441	Synoptic Meteorology Lecture-Laboratory	3
ESCI 443	Climate Dynamics	3
ESCI 444	Mesoscale Meteorology	4
ESCI 446	Stats & Decision Making in Earth Science	3

EARTH SCIENCE ELECTIVES

undefined - Choose 12 hours from:		12
ESCI 261	Introduction to Oceanography	
ESCI 322	Environmental Hydrology	
ESCI 344	Tropical Meteorology	
ESCI 347	Satellite Meteorology	
ESCI 349	Chemistry of the Atmosphere	
ESCI 369	Physical Oceanography and Climate	
ESCI 380	Remote Sensing & Image Interpretation	
ESCI 440	Space Weather and Environment	
ESCI 445	Num Modeling of Atmos and Ocns	
ESCI 447	Meteorological Instrumentation	
ESCI 448	Boundary Layers and Turbulence	
ESCI 449	Radar Meteorology	

Topics courses must be approved by advisor. Any approved Meteorology electives taken in excess of 49 will be listed here and count toward major GPA. Only one course designated as Perspectives (P) is allowed as an elective in the MET major or required related. If you are taking a (P) course as a major elective, please have your advisor email degree.audit@millersville.edu

Total Hours 50

Req Related for Meteorology, BS

Code	Title	Hours
MATHEMATICS		
Calculus I or Honors Calculus (C- minimum) - Choose 1 of the following:		4-5
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	
MATH 211	Calculus 2	4
MATH 311	Calculus 3	4
MATH 365	Ordinary Differential Equation	3
Statistics course, Linear Algebra or Partial Differential Equations - Choose 1 of the following:		3-4
MATH 235	Survey of Statistics	
MATH 322	Linear Algebra 1	
MATH 333	Probablity and Statistics	
MATH 335	Mathematical Statistics 1	
MATH 467	Partial Differential Equations	
CHEMISTRY		
CHEM 111	Introductory Chemistry 1 (C- minimum)	4
PHYSICS		
PHYS 231	Physics 1 with Calculus (C- minimum)	5
PHYS 232	Physics 2 with Calculus	5
Total Hours		32-34