

# MILLERSVILLE UNIVERSITY

Student Name: \_\_\_\_\_ Student I.D.# \_\_\_\_\_

DEGREE: BS	<b>MAJOR REQUIREMENTS FOR A BS DEGREE IN METEOROLOGY</b>
MAJOR: MET	Total credit hours required: 120.0 minimum
OPTION:	

## REQUIREMENTS AND POLICIES FOR THE BS METEOROLOGY MAJOR

### A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Meteorology major by the Office of Admissions upon admission to the University.
2. Admission into the Meteorology major from other departments is upon approval of the chairperson of the Earth Sciences Department.
3. Non-degree and continuing education students must be admitted to the Meteorology major by the Office of Admissions.

### B. Policies for Retention in the Major

In order to remain a major in good academic standing in the Department of Earth Sciences, a student must earn a grade of at least a C- in the following courses: MATH 161, CHEM 111, PHYS 231, ESCI 241.

### C. Policies for Completion of the Major

Completion of all Departmental and University curricular requirements.

**Note to the student:** *This form is provided as a guide. It is your responsibility to consult regularly with your advisor to be aware of changes and curriculum details which are not incorporated on this form.*

## MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS METEOROLOGY**

Option:

Major Field Requirements: **51.0 credits**

Other Requirements: **32.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Course No.	Short Title	C.H.	Grade
<b>REQUIRED EARTH SCIENCES COURSES (39.0 credits)</b>				<b>REQUIRED RELATED (32.0 - 33.0 credits)</b>			
ESCI	241	Meteorology	4.0	<b>Chemistry (4.0 credits)</b>			
ESCI	282	FORTRAN Prog. ES Applications	3.0	CHEM	111	Introductory Chemistry I	4.0
ESCI	340	Cloud Phys & Precip Processes	3.0	<b>Mathematics (18.0-19.0 credits)</b>			
ESCI	341	Atmospheric Thermodynamics	3.0	MATH	161	Calculus I	4.0
ESCI	342	Atmospheric Dynamics I	3.0	MATH	211	Calculus II	4.0
ESCI	343	Atmospheric Dynamics II	3.0	MATH	311	Calculus III	4.0
ESCI	345	Atmospheric Radiative Transfer	3.0	MATH	365	Differential Equations	3.0
ESCI	386	Scientific Prog. Analy. & Visual.	3.0	<b>AND</b>			
		---OR---		MATH	235	Survey Statistics	3.0
ESCI	281	GIS for Earth Science	3.0	<b>OR</b>			
		---OR---		MATH	333	Probability & Statistics	4.0
GEOG	295	Geographic Info. Systems	3.0	<b>OR</b>			
ESCI	441	Synoptic Meteorology Lec-Lab	3.0	MATH	335	Math Statistics I	3.0
ESCI	443	Climate Dynamics	3.0	<b>Physics (10.0 credits)</b>			
ESCI	444	Meso. & Storm-Scale Met.	4.0	PHYS	231	Physics I with Calculus	5.0
ESCI	446	Stats., Uncertainty, & Decision Making in Earth Sciences	3.0	PHYS	232	Physics II with Calculus	5.0
<b>EARTH SCIENCES ELECTIVES (12.0 - 13.0 credits)</b>				<b>GENERAL ELECTIVES (as necessary)</b>			
ESCI	261	Intro to Oceanography	4.0	_____	_____	_____	_____
ESCI	322	Environmental Hydrology	3.0	_____	_____	_____	_____
ESCI	344	Tropical Meteorology	3.0	_____	_____	_____	_____
ESCI	347	Satellite Meteorology	3.0	_____	_____	_____	_____
ESCI	349	Chemistry of Atmosphere	3.0	_____	_____	_____	_____
ESCI	369	Physical Oceanography	3.0	_____	_____	_____	_____
ESCI	380	Remote Sensing	3.0	_____	_____	_____	_____
ESCI	390	Topics (Meteorology)*	3.0	_____	_____	_____	_____
ESCI	440	Space Weather & Environment	3.0	_____	_____	_____	_____
ESCI	445	Numerical Modeling	3.0	_____	_____	_____	_____
ESCI	447	Meteorological Instrumentation	3.0	_____	_____	_____	_____
ESCI	448	Boundry Layers & Turbulence	3.0	_____	_____	_____	_____
ESCI	449	Radar Meteorology	3.0	_____	_____	_____	_____
ESCI	485	Air-Sea Interaction	3.0	_____	_____	_____	_____
<p>* Topics: Meteorology Communications does NOT count towards the ESCI electives.</p>							
<b>Skill Courses</b>							
(Do not count towards the degree)							
ESCI	348	Broadcast Meteorology	1.0	_____	_____	_____	_____
ESCI	442	Advanced Weather Analysis/ Forecasting Practicum	2.0	_____	_____	_____	_____