

FISI 4017	
Optics	3
FISI 4049	
Electronics	3
FISI 4135	
Applied Optics	4
FISI 4996	
Coop Practice	3-6
FISI 4997	
Special Problems in Physics	1-3
FISI 4999	
Undergraduate Research	1-3
FISI 5037	
Introduction to Solid State Physics	3
FISI 5047	
Laser Physics	3

**Electives in Astronomy, Meteorology or Physics**

METE 4006	
Introductory Meteorology	3
METE 4007	
Meteorological Measurements	1
METE 4008	
Physical Meteorology	3
METE 4057	
Atmospheric Thermodynamics	3
METE 4061	
Dynamic Meteorology	3
METE 4075	
Synoptic Meteorology	3
METE 4085	
Mesoscale Meteorology	3
METE 5065	
Advanced Dynamic Meteorology	3

Note: The total number of required credits of recommended electives (in Chemistry, Computer Sciences, Geology, and Mathematics), and electives in Astronomy or Physics are distributed as follows:

Chemistry	8
Computer Sciences	3
Geology	3
Astronomy or Physics	9
<b>TOTAL</b>	<b>23</b>

**CURRICULAR SEQUENCE IN ATMOSPHERIC SCIENCES AND METEOROLOGY**

**Main Objective**

Provide formal training in Meteorology and Atmospheric Sciences that would allow students to pursue a career in meteorology and related fields. The curriculum covers all of the fundamental topics required for graduate studies or a career as an operational meteorologist.

**Admissions Requirements**

- An overall GPA of 2.50 or higher.
- A GPA in both Math and Physics courses of 2.50 or higher.
- Having approved a Physics I and II sequence such as: Fisi3151/3152 or Fisi3161/3162 or Fisi3171/3172.
- Having approved Calculus II (MATE 3032) or its equivalent
- Being registered in a Science, Math or Engineering bachelor program at UPRM or having already obtained such a degree.

**Summary of Credits in Sequence**

Meteorology Requirements	16
Remote Sensing Requirements	3
Recommended Electives	6

**Total 25**

**\*Meteorology Requirements**

METE 4006	
Introductory Meteorology	3
METE 4007	
Meteorological Measurements	1
METE 4008	
Physical Meteorology	3
METE 4057	
Atmospheric Thermodynamics	3
METE 4061	
Dynamic Meteorology I	3
METE 4075	
Synoptic Meteorology	3

**Remote Sensing Requirements**

+GEOL 3105  
Images of Planet Earth 3

**Recommended Electives**

METE 4085  
Mesoscale Meteorology 3  
METE 5065  
Advanced Dynamic Meteorology 3  
CMOF 5015  
Physical Oceanography for Atmospheric Sciences 3  
GEOL 4048  
Geological Applications of Remote Sensing 3  
QUIM 3085  
Environmental Chemistry 3

- \* Required Meteorology courses must be approved with a grade of C or better.
- + Can be substituted with equivalent Remote Sensing Courses with permission of Physics Department.

**DEPARTMENTAL FACULTY**

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