### 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

### Curricular Sequence in Atmospheric Sciences and Meteorology

**Main Objective**

Provide formal training in Meteorology and Atmosphere 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: FISI 3151/3152 or FISI 3161/3162 or FISI 3171/3172.
- 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meteorology Requirements</td>
<td>16</td>
</tr>
<tr>
<td>Remote Sensing Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Recommended Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

**Meteorology Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>METE 4006: Introductory Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>METE 4007: Meteorological Measurements</td>
<td>1</td>
</tr>
<tr>
<td>METE 4008: Physical Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>METE 4057: Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>METE 4061: Dynamic Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>METE 4075: Synoptic Meteorology</td>
<td>3</td>
</tr>
</tbody>
</table>

*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:*

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
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</tr>
<tr>
<td>Computer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Geology</td>
<td>3</td>
</tr>
<tr>
<td>Astronomy or Physics</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>
Remote Sensing Requirements

+ GEOL 3185
Images of Planet Earth

Recommended Electives

METE 4085
Mesoscale Meteorology

METE 5665
Advanced Dynamic Meteorology

CMOF 5015
Physical Oceanography for Atmospheric Sciences

GEOL 4048
Geological Applications of Remote Sensing

QUIM 3085
Environmental Chemistry

* 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

LUIS R. BEJARANO-AVENDANO, Assistant Professor, Ph.D., 2006, Florida State University.

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RAFAEL A. RAMOS, Professor, Ph.D., 1994, Boston University.

ERICK ROURA-DÁVILA, Professor, Ph.D., 2001, University of Massachusetts at Amherst.

SAMUEL SANTANA-COLON, Assistant Professor, Ph.D., 2008, Indiana University.

MAHARAJ S. TOMAR, Professor, Ph.D., 1973, University of Roorkee, India.

ESOV VELÁZQUEZ, Professor, Ph.D., 1999, University of Puerto Rico.