ATMOSPHERIC SCIENCES MINOR

Atmospheric and Oceanic Science (AOSC)
3417 Computer and Space Sciences Building
Phone: 301-405-5391
atmos.umd.edu (http://atmos.umd.edu)

Program Directors: T. Canty, Ph.D. and A. Jones, Ph.D.

This minor will provide a general background in meteorology as offered by
the lower level courses, and a solid background in atmospheric physics
(AOSC431) and atmospheric dynamics (AOSC432), as offered by two
required courses. It is aimed at non-majors who might consider graduate
work in meteorology, or prepare them for the very favorable job market
in the Washington, D.C. area, where a background in meteorology can
be an important asset. Students attempting this minor will need a
strong background in mathematics, physics and chemistry at the level of
MATH240 or MATH461, PHYS270 and PHYS271; CHEM135 (preferred)
or CHEM131, which are prerequisites for the required courses. Students
interested in taking this minor program should contact the undergraduate
advisor in the Department of Atmospheric and Oceanic Science for
advising. This minor is not open to students who major in Atmospheric
and Oceanic Sciences.

Requirements

This minor will require 15 credits. All courses presented for the minor
must be passed with a grade of "C-" or better.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AOSC123</td>
<td>Causes and Consequences of Global Change</td>
<td>6</td>
</tr>
<tr>
<td>AOSC200</td>
<td>Weather and Climate</td>
<td></td>
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<tr>
<td>AOSC400</td>
<td>Physical Meteorology of the Atmosphere</td>
<td></td>
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<tr>
<td>AOSC431</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
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<tr>
<td>AOSC432</td>
<td>Dynamics of the Atmosphere and Ocean</td>
<td>3</td>
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<td></td>
<td>One elective from:</td>
<td>3</td>
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<td></td>
<td>Other 400 level courses offered in the Department of Atmospheric and Oceanic Science on a regular basis, or from a list of non-permanent electives that will be offered by research scientists, regular faculty from Atmospheric and Oceanic Science, or members of the Earth System Science Interdisciplinary Center (ESSIC)</td>
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<tr>
<td>GEOG472</td>
<td>Remote Sensing: Digital Processing and Analysis</td>
<td></td>
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</tbody>
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Total Credits 15