**ADMISSIONS**

**ADMISSION REQUIREMENTS**

**Graduate Record Exam (GRE)**

The general test is required. This includes verbal, quantitative and analytical parts.

Admitted students generally have quantitative scores of at least 151 (650 prior scale, 56% percentile), verbal reasoning scores of 152 (490 prior scale, 56% percentile) and analytical scores of 4.0 (48% percentile). Scores should not be older than five years.

**Prerequisites for Graduate Work**

- **Math**—three semesters college calculus sequence for science/engineering majors plus differential equations
- **Physics**—two semesters calculus-based general college physics
- **Chemistry**—one semester general chemistry

A minimum undergraduate GPA of 3.0 is required for admission.

International students must submit scores from the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

Prior work in atmospheric or oceanic sciences is not required, but it is beneficial. Knowledge of computer programming is recommended.

Applications are also judged on academic record, letters of recommendation, prior research experience, and the statement of purpose. PhD students must have an advisor identified before they can be recommended for admission.

For additional information on apply for admission, please go to the AOS website. [http://aoswebsite.aos.wisc.edu/academics/graduate/admission](http://aoswebsite.aos.wisc.edu/academics/graduate/admission)

**FUNDING**

**GRADUATE SCHOOL RESOURCES**

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information [https://grad.wisc.edu/funding](https://grad.wisc.edu/funding) is available from the Graduate School. Be sure to check with your program for individual policies and processes related to funding.

**PROGRAM RESOURCES**

Financial assistance is available to qualified students. The typical sources of funding are research and teaching assistantships. All applicants are considered for any available assistantships. Financial aid is handled separately from admission in the department. Students generally hear about their admission status well before any decision about financial aid is made.

Prospective students should see the ATM OCN website [http://aoswebsite.aos.wisc.edu/academics/graduate/stipends-fees](http://aoswebsite.aos.wisc.edu/academics/graduate/stipends-fees) for additional funding information.
REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/policiesandrequirementstext), in addition to the program requirements listed below.

MAJOR REQUIREMENTS

MODE OF INSTRUCTION

<table>
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<tr>
<th>Mode of Instruction Definitions</th>
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<tbody>
<tr>
<td><strong>Face to Face</strong></td>
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<td><strong>Evening/Weekend</strong></td>
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<td><strong>Online</strong></td>
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<tr>
<td><strong>Hybrid</strong></td>
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<tr>
<td><strong>Accelerated</strong></td>
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<tr>
<td>Yes</td>
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<tr>
<td>No</td>
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**Face to Face:** These programs are offered in a traditional classroom format on campus.

**Evening/Weekend:** These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

**Online:** These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

**Accelerated:** These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Minimum</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Overall Minimum Residence Credit</td>
<td>32</td>
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<tr>
<td>Overall Minimum Graduate Coursework</td>
<td>Half of degree coursework (26 credits out of 51 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide.</td>
<td></td>
</tr>
<tr>
<td>Overall Minimum Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
<td></td>
</tr>
</tbody>
</table>

REQUISITE COURSES

At least 15 credits are from lecture courses numbered 600 or above in the department. Seminars, research credits, and audited courses are not included.

An additional 10 (at least) credits are taken to satisfy the minor requirement (see below). These credits may be from the department, but cannot be used to satisfy the first requirement (15 credits from lecture courses numbered 600 or above in the department).

Students are required to take ATM OCN 900 Seminar-Meteorology.
POLICIES

GRADUATE SCHOOL POLICIES
The Graduate School's Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

MAJOR-SPECIFIC POLICIES

GRADUATE PROGRAM HANDBOOK
The Graduate Program Handbook (http://aoswebsite.aos.wisc.edu/academics/graduate/handbook) is the repository for all of the program's policies and requirements.

Prior Coursework

Graduate Work from Other Institutions
With program approval, students are allowed to count no more than 19 credits of graduate coursework from other institutions. Coursework earned five or more years prior to admission to a doctoral degree is not allowed to satisfy requirements.

UW–Madison Undergraduate
With program approval, students are allowed to count no more than 7 credits of graduate coursework taken as an undergraduate at UW–Madison, as long as those credits were not applied toward an undergraduate degree. Coursework earned five or more years prior to admission to a master’s degree or earned ten years or more prior to admission to a doctoral degree is not allowed to satisfy requirements.

UW–Madison University Special
With program approval, students are allowed to count no more than 15 credits of coursework numbered 300 or above taken as a UW–Madison Special student. Coursework earned five or more years prior to admission to a master’s degree or earned ten years or more prior to admission to a doctoral degree is not allowed to satisfy requirements.

PROBATION
A semester GPA below 3.0 will result in the student being placed on academic probation. If a semester GPA of 3.0 is not attained during the subsequent semester of full time enrollment (or 12 credits of enrollment if enrolled part-time) the student may be dismissed from the program or allowed to continue for 1 additional semester based on advisor appeal to the Graduate School.

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

Probation is based on student status. The status of a student can be one of three options:

1. Good standing (progressing according to standards; any funding guarantee remains in place).
2. Probation (not progressing according to standards but permitted to enroll; loss of funding guarantee; specific plan with dates and deadlines in place in regard to removal of probationary status).
3. Unsatisfactory progress (not progressing according to standards; not permitted to enroll, dismissal, leave of absence or change of advisor or program).

ADVISOR / COMMITTEE
A Ph.D. committee is required in order to become a Ph.D. student. The student, under the guidance of the major professor, must form a committee of five professors consisting of the major professor, three other professors from our department, and one professor from outside the department (often from the minor department). Additional members may be added, if appropriate. Adjunct faculty can be included among the five committee members. If the committee dissolves for any reason, the candidate cannot continue in the Ph.D. program unless a new committee is formed.

The first meeting of the Ph.D. committee should normally occur after the student completes the qualifying examination, but within the same semester as the qualifying examination. Potential committee members, in deciding whether to form a Ph.D. committee, use results from the qualifying examination as well as additional information about a student’s suitability for pursuing a Ph.D.

All students are required to conduct a yearly progress report meeting with their thesis committee after passing the preliminary examination.

CREDITS PER TERM ALLOWED
15 credits

TIME CONSTRAINTS
The Ph.D. degree should be completed within five years after establishing a Ph.D. committee. For additional time constraints please consult the Graduate School Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy).

OTHER
n/a

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES
Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd) to build skills, thrive academically, and launch your career.

LEARNING OUTCOMES
1. Have an in-depth knowledge of the fields that are relevant to their research areas by taking appropriate courses not only in atmospheric and oceanic sciences, but also in related disciplines including mathematics, statistics, physics, and engineering.
2. Ask the right scientific questions: What are the important scientific problems in this field? Can a problem be solved by the available resources in a reasonable time? How to design a scientific approach to tackle the problem?

3. Read original papers of their research field to understand how previous investigators approach the problem and how they can improve on previous results.

4. Articulate research problems, potentials, and limits with respect to theory, knowledge, or practice within the field of study.

5. Formulate ideas, concepts, designs, and/or techniques beyond the current boundaries of knowledge within the field of study.

6. Fosters ethical and professional conduct.

**PEOPLE**

**PROFESSORS**
Ackerman, Steve
Desai, Ankur
Hitchman, Matt
Holloway, Tracey
Martin, Jonathan
Morgan, Morgan
Petty, Grant
Tripoli, Greg (Chair)
Vimont, Dan

**ASSOCIATE PROFESSORS**
Back, Larissa
L'Ecuyer, Tristan