M.S. IN ATMOSPHERIC SCIENCES

The most competitive ATM applicants have a strong foundation in the physical sciences and a bachelor's and/or master's degree in physics, mathematics, chemistry, meteorology, atmospheric science, or other related sciences. Applicants must take the GRE, and those whose first language is not English must pass the Test of English as a Foreign Language (TOEFL) with a score of at least 550. A background in scientific programming is preferred though not required.

Application for Admission to the Rosenstiel School of Marine and Atmospheric Science (Ph.D. and M.S.)

Getting Started

All applicants should review undergraduate preparation requirements and recommendations for a competitive application (https://graduate.rsmas.miami.edu/admissions/undergraduate-prep/). In addition to satisfactory scores (as judged by the graduate program) on the appropriate tests, the general requirement for admission is a bachelor's degree from an accredited college or university with a 3.0 GPA average. If you have any questions about these requirements, please contact the Graduate Program Director for the program you are interested in.

When submitting an application, prospective students must indicate the program(s) of interest. The online application will allow you to submit one application to multiple RSMAS graduate programs with no additional application fee.

The online application will ask you to identify up to 5 faculty with whom you would be interested in meeting if you are offered the opportunity to interview. We encourage you to review faculty associated with various research areas and the list of available research assistantships (https://graduate.rsmas.miami.edu/admissions/phd-assistantships/). Please note your application will be considered regardless of your selection. Applicants are welcome to contact faculty via email before and during the application process, but this is not required.

Dates and Deadlines

RSMAS accepts applications year round. For best chances of fall admission into one of our PhD or research based Masters of Science programs, your complete application including all supporting documents must be received in the application period of November 1st - January 10th. However, complete applications received by December 1st will have the highest chance of being invited to our on-site annual recruitment weekend visit in early February.

Application Requirements

Online Application Form and Upload Supporting Documents

Please use the online application which can be found at https://www.applyweb.com/miamigrd/index.html (https://www.applyweb.com/miamigrd/).

- The application will ask you to identify up to 5 faculty with whom you are interested in. See above statement for more details on this.
- Upload PDF of Statement of Purpose identifying your goals and objectives in pursuing a graduate degree. If you have already identified RSMAS faculty you are interested in, please be sure to include this information here as well.
- Upload PDF of unofficial transcripts (for review purposes only). See below statement on transcripts for more details on this.
- Three letters of recommendation from persons well situated to evaluate your qualifications for graduate study. The online application will ask you to enter your recommender’s email addresses for the RSMAS recommendation letter form to be sent to them.
- Non-refundable application fee ($85).

Official Transcripts of All College and Graduate Level Work

US APPLICANTS

While the online application will allow you to upload unofficial transcripts for review purposes, RSMAS must receive official transcripts before an offer of admission can be released. You are strongly encouraged to request the registrar of each institution attended to send transcripts directly to the University of Miami, RSMAS, Graduate Studies Office (address below). For any institution allowing electronic transfer of the official transcript, please use gso@rsmas.miami.edu as the delivery address.

INTERNATIONAL APPLICANTS

Submit the following educational documents to an approved international credentialing evaluation service for evaluation:

- Official original diplomas and certificates in the original language
- Official original transcripts in the original language (names of courses, grades, and hours of instruction) for every year of study.
- NOTE: Documents in a language other than English must be accompanied by professional, certified English translations. Translations supplement, but do not replace the official documents.

Type of Evaluation Required

- The Rosenstiel School requires international applicants to complete a course-by-course evaluation with GPA.
Where to Submit Documents for Evaluation

- Josef Silney & Associates (JS&A), Inc, International Education Consultants, is the preferred evaluation vendor for international applicants to the University of Miami due to their competitive prices and high-quality service. Click here (https://www.jsilny.org/services.aspx/#foreign_anchor) for more information including the Application for Foreign Educational Credentials.
- Please note that international applicants are not required to use the services of JS&A. The international credential evaluation services of any approved vendor may be used. Click here (https://www.naces.org/members/) to view a list of approved vendors.
- Please be sure the vendor sends your evaluation directly to gso@rsmas.miami.edu.
- **Evaluation Fee** - Applicants are responsible for the evaluation fee.
- Please note that failure to comply with these instructions may cause significant delays in the review and processing of your application, and therefore also significant delays in the processing of your I-20.

**Official GRE Score Report**

- An official score of the Graduate Record Examination Test (GRE): http://www.ets.org/gre (https://www.ets.org/gre/revised_general/scores/) must be submitted using institution code 7690 (there is no department code). The University of Miami requires a minimum score of 297 (total of verbal + quantitative) for acceptance into any Graduate School program. The Rosenstiel School does not have a minimum score requirement of its own (other than the UM minimum) for the verbal and quantitative sections, but most admitted applicants score approximately in the 80th percentile or better. In addition, applicants must have a minimum of 3.5 on the analytical writing section.
- It is only recommended, not required, that applicants to the Graduate Program in Marine Biology and Ecology submit the score of the Subject Test in Biology.

**Official TOEFL or IELTS Score Report (International Applicants Only)**

- International applicants whose native language is not English must submit official results of the Test of English as a foreign language (TOEFL): http://www.ets.org/toefl/ (https://www.ets.org/toefl/) using institution code 2919 or the International English Language Testing System (IELTS) http://www.ielts.org/ (https://www.ielts.org/) using institution code 4862. There is no department code for either score submission.
- An exception to this rule is an international student who will have earned a US degree prior to enrollment at RSMAS.
- A minimum score of 550 (paper-based test), 213 (computer-based test), 80 (iBT), or 6.5 for the IELTS is required for admission.

**Additional Supplemental Documents**

- **Ph.D. Applicants with a Prior Master’s Degree**
  - Students applying to the Ph.D. program with a prior Master’s degree must include with their application an abstract of the thesis or reprints or manuscripts of scientific work. Applicants can email this to gso@rsmas.miami.edu. (gso@rsmas.miami.edu)
- **Financial Documents**
  - Applicants who have already secured an external fellowship, scholarship, sponsorship or other funding to finance the degree should email financial documents directly to gso@rsmas.miami.edu.

**Mailing Address:**

Graduate Studies Office SLAB 130  
Rosenstiel School of Marine and Atmospheric Science  
University of Miami  
4600 Rickenbacker Causeway  
Miami, Florida 33149  
Telephone: 305.421.4155  
Facsimile: 305.421.4771  
E-mail: gso@rsmas.miami.edu

**Program Requirements**

The applicable requirements will be those in effect during that academic year when the student first registered in the Program, unless stated otherwise in this Handbook or by the Program Director.

All RSMAS courses are listed on the RSMAS website. All courses taken by students should be approved by their advisors. Students are recommended to consult with their advisors and the ATM Program Director regarding their choices of courses. Deviations from the requirements must be approved by the advisor and the ATM Program Director.

ATM students have a common set of required core courses. Elective courses are chosen from offerings in ATM as well as other units of RSMAS and UM.

**Curriculum Requirements**
The ATM M.S. degree requires 30 total credits.  

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td></td>
<td><strong>Core Courses</strong></td>
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<td>Introduction to Atmospheric Chemistry</td>
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<tr>
<td>ATM 651</td>
<td>Introduction to Atmospheric Dynamics</td>
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<td>ATM 652</td>
<td>Introduction to Atmospheric Physics</td>
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<td><strong>Electives</strong></td>
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<td>ATM 810</td>
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<td>RSM 700</td>
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<td>ATM Seminar 4</td>
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<td>ATM 701</td>
<td>Seminar in Atmospheric Sciences</td>
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**Total Credit Hours**: 30

1. Minimum of 24 course credits and 6 thesis credits.
2. The remaining course credits can be obtained by taking other graduate courses offered by ATM, RSMAS, or UM.
3. Material from the required core courses will appear on the Comprehensive Examination (along with material from other courses from the first year).
4. Grade of Master's Pass, Pass or High Pass needed to fulfill requirement.
5. For full-time students, the Comprehensive Examination should be taken near the end of their first year of graduate studies at RSMAS. This examination will be arranged by a Comprehensive Examination Committee which comprises the ATM Graduate Program Director and the instructors (or assignees) of the first year courses taken by the students.
6. The purpose of this examination is to evaluate students' understanding of materials in the courses completed up to the time of the examination and their capability of integrating these materials, and to determine whether the students are permitted to proceed in the program.
7. The Comprehensive Examination will consist of an oral part and a written part. The written part, which lasts no longer than 8 hours, consists of closed-book questions in the courses taken in the first year by each individual student. Each student must choose to answer four questions from those submitted, with a minimum of 1 question per course (up to the maximum of 4 questions). The oral part is administered by the ATM Graduate Program Director and one or more of the course instructors (or assignees), and may include questions from all the courses taken by the student. The oral exam lasts no longer than 2 hours for each student. The GPA comprises 20% of the Comprehensive Exam grade, and the written and oral parts of the Comprehensive Exams comprise 40% each.
8. A student's performance in this examination, together with his/her cumulative grade point average, will determine whether the grade of High Pass, Pass, Master's Pass or Fail is given by the Comprehensive Exam Committee. The examining board consists of faculty whose questions are answered by the student and any other RSMAS faculty who wish to participate.
   - **High Pass**: For students with no identifiable relevant weaknesses.
   - **Pass**: Students and advisors will receive feedback from the Comprehensive Exam committee on the strengths and weaknesses of the student, and possible recommendations of how to address those. This information can be used to help plan the next steps in the student's academic career.
   - **Master's Pass**: Students with this result will be required to defend a Master's thesis before considering whether to pursue a Ph.D. Students and advisors will receive feedback from the Comprehensive Exam committee on the strengths and weaknesses of the student, and possible recommendations of how to address those.
   - **Fail**: Students with this result will have an opportunity to re-take the exam once.

4. Attendance to the ATM seminars is required every semester.
5. ATM M.S. students must give at least one 15-minute presentation each year after the Comprehensive Examination.

**Mission**

The Department of Atmospheric Sciences (ATM), started in 2016, seeks to advance knowledge and understanding of the physical, chemical, and dynamical processes that determine our weather, our climate, and their interactions with the oceans and the continents. We train graduate students and young scientists to be leaders in the atmospheric sciences and related fields. Through our distinct strengths in climate dynamics, tropical meteorology, and cloud and aerosol processes, we strive to achieve excellence in research and education that will better inform the public and policy makers on how to prepare for hazards and changes in the weather-climate system.

**Goals**

**Student Learning Outcomes**

- Students will demonstrate a broad understanding of atmospheric science and how scientific research in their topical areas relates to societal issues.
- Students will demonstrate the ability to conduct high-quality atmospheric science research as evidenced by their thesis research.
- Students will demonstrate oral and written communication skills commensurate with employment as a research scientist or equivalent professional level scientist.