

ATMOSPHERIC SCIENCES (MS)

Graduate School

Program Website (<https://www.engineering.cornell.edu/eas/ms-programs/>)

CIP: 40.0401 | HEGIS: 1913.00 | NYSED: 24419

Graduate Field

Atmospheric Science (<https://catalog.cornell.edu/graduate-school/atmospheric-science/>)

Program Description

Atmospheric science concerns the study of processes in the atmosphere, from the planetary boundary layer to the ionosphere. Applications relate to the analysis and prediction of weather and climate.

Program Information

- Instruction Mode: In Person
- Location: Ithaca, NY

Program Requirements

Each student works closely with a Major Professor and a graduate Special Committee. This group of faculty members determines the degree requirements consistent with each student's individual training and academic goals.

M.S. students must earn at least two units of residence credit, and complete one minor. One residency unit is granted for each satisfactory semester of full-time study. Students must pass the M.S. defense exam, and submit a thesis acceptable to the student's Special Committee and to the Graduate School.

Learning Outcomes

Make a contribution to scholarship within one of the sub-disciplines within atmospheric sciences:

- Learn advanced research skills
 - Synthesize existing knowledge, identifying and accessing appropriate resources and other sources of relevant information, and critically analyzing and evaluating their own findings and those of others
 - Apply existing research methodologies, techniques, and technical skills
 - Develop both qualitative and quantitative skills
 - Communicate in a style appropriate to the discipline
- Demonstrate commitment to advancing the values of scholarship
 - Keep abreast of current advances within one's field and related areas
 - Show commitment to personal professional development through engagement in professional societies and other knowledge transfer modes
 - Show a commitment to creating an environment that supports learning—through teaching, collaborative inquiry, mentoring, organization of community learning experiences, or demonstration
- Demonstrate professional skills
 - Adhere to ethical standards in the practice of atmospheric sciences
 - Listen, give, and receive feedback effectively