



# DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES



**ABOUT US** The Department of Earth and Atmospheric Sciences is dedicated to delivering the best education in Applied Geology, Environmental Science, Geography, and Meteorology. You'll use the Earth as your laboratory to build your scientific knowledge and skills. Our expert faculty, small class sizes, field experiences, and state-of-the-art lab facilities offer a space for students to thrive. Through our programs, you will increase your understanding of the planet and make the world a better place.



**STUDENT OPPORTUNITIES** With Colorado's diverse landscapes as a backdrop, students can participate in field courses like The Colorado Plateau and Observations of Severe Weather. Students can also visit the National Ice Core Lab and the National Weather Service or travel to national meetings like the Geological Society of America, American Meteorological Society and the American Association of Geographers.



**MAJOR/MINOR** We offer majors in Applied Geology, Geography, Environmental Science, and Meteorology. Round out your education with our minor or certificate offerings which include Geology, Geography, Geographic Information Systems (minor or certificate), Sustainability Studies, Climate Change, Environmental Science, and Meteorology.



**ALUMNI QUOTE** "Studying meteorology at MSU honed my curiosity for the atmosphere. The comprehensive knowledge given to me created an opportunity for me to explore ANY career in meteorology. I chose to pursue broadcasting and really enjoy sharing my weather passion with the general public."

- Alex O'Brien, 2016  
Broadcast Meteorologist in Colorado Springs

## INDUSTRY CAREERS

- Meteorologist
- Environmental Scientist
- Geographic Information Systems Specialist
- Geologist
- Geographer



## CONTACT US

303-615-1177 | eas@msudenver.edu | Science Building, 2028 | msudenver.edu/earth-atmospheric-sciences



# METEOROLOGY | Bachelor of Science

## Experiential Major Map



**MSU**  
DENVER

COLLEGE OF LETTERS,  
ARTS AND SCIENCES

	First Year	Middle Years	Last Year
<b>Cultivate</b> Learning & Academic Excellence	<ul style="list-style-type: none"> <li>Establish good study skills</li> <li>Prepare your technology for learning and notetaking</li> <li>Learn to use Canvas</li> </ul>	<ul style="list-style-type: none"> <li>Meet with advisors to personalize a course journey based on career goals</li> <li>Consider joining the Observations of Severe Weather field course in Maymester</li> </ul>	<ul style="list-style-type: none"> <li>Meet with an advisor to ensure on track for graduation</li> <li>Complete your senior experience course</li> <li>Apply for graduation</li> </ul>
<b>Engage</b> Globally and Locally	<ul style="list-style-type: none"> <li>Join the Student Chapter of the American Meteorological Society</li> <li>Participate in the Meteorology Discord chat</li> </ul>	<ul style="list-style-type: none"> <li>Attend Meteorology Club events</li> <li>Consider attending a national conference on meteorology</li> <li>Apply for summer opportunities in meteorology</li> </ul>	<ul style="list-style-type: none"> <li>Take a leadership role as an officer in the student meteorology club</li> <li>Attend the annual American Meteorological Society meeting</li> <li>Visit a National Weather Service Office</li> </ul>
<b>Prepare</b> for Postgraduation Success	<ul style="list-style-type: none"> <li>Build professional relationships with classmates, LAs &amp; professors</li> <li>Focus on skills in foundational courses</li> <li>Begin developing a resume</li> </ul>	<ul style="list-style-type: none"> <li>Continue to build resume</li> <li>Engage in career exploration events</li> <li>Participate in meteorology networking events</li> </ul>	<ul style="list-style-type: none"> <li>Job shadow an MSU Denver meteorology alumni in the area</li> <li>Create a profile on a professional networking site like LinkedIn</li> <li>Consider applying to graduate school</li> </ul>

### Academic Success Checklist

- Discover library resources
- Book an appointment with your academic advisor
- Visit the writing and tutoring center
- Complete FASFA and academic scholarship applications

Most students participate in a summer research program, internship, or a National Center for Atmospheric Research (NCAR) opportunity before graduating.

### Career Development Checklist

- Update your resume early & often
- Drop into the C2 Hub's Career Lab
- Secure an internship or career aligned part time job to develop essential skills for graduation

### Career Information

#### What skills do employers want?

- Forecasting skills
- Written forecast ability with consideration of audience
- Social media savviness
- Computer programming and map making skills
- Critical thinking skills

#### This major gives me the skills to:

- Forecast the weather
- Communicate weather risks appropriately to various audiences
- Apply foundational science and math techniques to interpret atmospheric processes

#### What careers can I pursue?

- Weather forecaster
- Atmospheric scientist
- Broadcast meteorologist
- Data analyst
- Climate scientist



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