MSU DENVER College of Letters, Arts and Sciences

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

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MSU DENVER

APPLIED GEOLOGY | Bachelor of Science

Experiential Major Map

MSU DENVER College of Letters, Arts and Sciences

	First Year	Middle Years	Last Year
Cultivate Learning & Academic Excellence	• Enjoy Learning! • Keep course files and notes for future reference • Submit financial aid and scholarship applications	• Choose an exciting topic for undergraduate research, then start collecting information and data • Get a variety of different geologic experience through courses and field work	• Perfect your analytical and professional skills through courses and field work • Complete your Undergraduate Research Project • Keep course files and notes
Engage Globally and Locally	• Join your classmates in Geology Club	• Help lead Geology Club • Join and participate in a geologic professional society	• Help lead Geology Club • Attend (and present!) at a scientific convention • Apply for travel or research funding through the geologic professional society you belong to
Prepare for Postgraduation Success	• Become familiar with software and technology solutions • Start your professional resume • Make a degree plan with an academic advisor	• Make note of geology interest areas • Learn graphical editing programs like Excel • Review your degree plan with an academic advisor each year	• Discuss grad school with a GEL advisor • Revise your resume • Solicit letters of recommendation • Prepare for the ASBOG exam

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

Our graduates find degree-related jobs or enroll in graduate programs across the U.S.

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?

- Solid geologic knowledge foundation
- Problem solving
- Thinking outside of the box
- Observational skills
- Investigative skills

This major gives me the skills to:

- Observational skills
- Problem-solving skills
- Field investigations
- Laboratory analytical instrumentation skills
- Field instrumentation skills and measurements

What careers can I pursue?

- Exploration Geologist
- Environmental & Hazards Scientist
- Fossil, Dinosaur & Museum Scientist
- Paleontology
- Planetary & Space Geologist
- Volcanologist

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