

# Environmental Geosciences

## Professional Science Masters



### Academic Mastery, Professional Polish

With small classes and close faculty attention, the University of Northern Colorado's PSM in Environmental Geosciences offers tremendous flexibility, independence and applied experience. The program includes an internship with a geoscience company or agency, while providing opportunities to develop entrepreneurial skills and collaborate with specialists from multiple scientific disciplines. Innovative

and experience-deep, the Environmental Geosciences PSM program offers advanced scientific training for high-level careers in resource management, energy development, environmental regulation, public policy and related fields. You'll conduct sophisticated fieldwork, data gathering and statistical analysis, while cultivating the managerial and communication skills necessary to lead and communicate about complex scientific inquiries.

### Career Pathway

The P.S.M. will qualify you for high level positions in the public, private and nonprofit sectors. Colorado houses major facilities such as the National Renewable Energy Laboratory, U.S. Geological Survey and National Center for Atmospheric Research. Our graduates are prepared for careers in the following industries:

- Managerial job in energy, mining or other extractive industries
- Environmental regulation
- Research and development
- Independent consulting
- Entrepreneurship

### Degree Options

The PSM allows you to pursue advanced scientific training while developing highly valued professional work-place skills. Students can choose their field of specialization which includes the following coursework options:

- Fourteen elective credit hours in geology, meteorology, earth science and oceanography content courses
- Three credit hours from other STEM content courses
- Six credit hours from a variety of professional skills courses
- Seven required credit hours in research, seminar and internship

### Program Details

- Greeley Campus Delivery
- Credits Required: 30
- Time to Completion: 12-18 months
- Classes Start: Spring, Summer and Fall semesters

## Related Programs

- Earth Science, M.A.
- Geography Education, Graduate Certificate
- Geographic Information Science, Graduate Certificate

## Cost and Value

Tuition rates are based on the 2021-22 Academic Year:

Colorado Resident Tuition: \$649 per credit hour plus fees.

Nonresident Tuition: \$1,217 per credit hour plus fees. You may qualify for CO resident tuition — see WRGP information at right.

UNC is regularly called out as a top value for both resident and nonresident students, and the university offers financial aid packages for qualified students. For more information, visit [UNCO.EDU/COSTS](https://unco.edu/costs).

## What Students Say

“The Environmental Geosciences PSM empowered me to navigate the world of academia and business. I have greater confidence that I can create positive changes in myself and my community as a result of this program at UNC. I am currently enrolled in a doctoral program toward those ends.”

*Dina London, 2016 Environmental Geoscience P.S.M. graduate*

## Financing your Education

UNC offers a variety of financial support options, including:

- Several competitive assistantships
- Scholarships for partial tuition
- Grant funding may be available for students in this program through the (Critical Career) Colorado Graduate Grant, funded by the Colorado General Assembly. To find out if you qualify, fill out the FAFSA. Students must be a Colorado resident and show high financial need.
- Colorado resident tuition for students from 15 western states is offered through the Western Regional Graduate Program. To see if you qualify visit [UNCO.EDU/GRADUATE-SCHOOL/FUNDING/WESTERN-REGIONAL-GRADUATE-PROGRAM.ASPX](https://unco.edu/graduate-school/funding/western-regional-graduate-program.aspx)

## Faculty Spotlight

### Sharon Bywater-Reyes, Ph.D.

Sharon joined the faculty in the Earth and Atmospheric Sciences Department in 2017, after working two years as a Postdoctoral Scholar in the Department of Forest Management and Engineering at Oregon State University. There, and in her dissertation research in Montana, she quantified primary and secondary controls on suspended sediment dynamics in streams. She uses ground-based and airborne LiDAR as well as a variety of statistical tools and models to study relationships between vegetation and sediment transport in rivers of the mountain west.

## Program Contact

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## About UNC Graduate School

*The University of Northern Colorado, founded in 1889, is Colorado's right-sized doctoral research university, serving a diverse student body around the world. Given its size, program mix, and mission, UNC offers students the access and opportunities of a small college along with the nationally recognized programs, research funding and facilities that come with being a leading U.S. university. Students seeking preparation for a world (and workplace) full of opportunities and options, complexities and cultures, diversity and demands, will find faculty mentors and excited fellow students to engage with here at UNC.*



**UNC**

UNIVERSITY OF NORTHERN COLORADO

Graduate School

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