



Meet Phil White

Hi! My name is Phil White, and I am the Earth, Environment and Geospatial Librarian here at CU. You may have seen me walking about in the Earth Sciences and Map Library or even speaking to one of your classes. My message to you is that I'm here to help! I work to connect our students, faculty, and researchers with the information they need to do their work. My specialty is in Earth Sciences and geospatial information. Usually, when I meet with students, we either discuss where to find scholarly resources like articles, books, and journals, or I consult with you on how to find, interpret, and use geospatial information—GIS data in other words. Frequently, that means sitting down with students and opening up ArcGIS or QGIS and talking through some of your spatial research questions.

Sometimes I help students find stuff in our stacks—"stacks" are what we librarians call the shelves with all of the books on them. If you've spent time in the Earth Sciences & Map Library, you'll have noticed that the stacks with all of our print materials—books, maps, atlases, theses, etc.—are all in the downstairs part of the library. If you have not spent much time down there, it's worth exploring all the cool stuff we have down there and feel free to ask me, or any of our other librarians, for help finding anything.

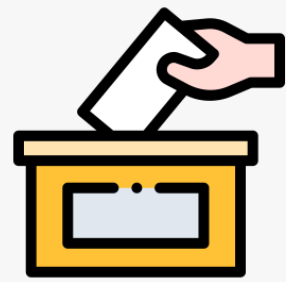
If you need some help finding information for your class and research projects—whether that's Geology resources or GIS data—please reach out! You can book a consultation appointment with me [here](#), or you're also welcome to drop in on me in the library. You can find my office between the stegosaurus and the study room on the main level of the library. The Libraries also have several online resources for students in the Earth Sciences & Geology including the [Geology Library guide](#), our online [Ask a Librarian chat service](#), and the [Earth Sciences & Map Library website](#).

Important Upcoming Deadlines

Register to Vote Online

The deadline to register to vote online is **Monday, October 28th**. You may register to vote in person until Tuesday, November 5th.

**Visit our
Website**



Department Social Events



Night at the Museum

Save the date: this year's Night at the Museum will take place on November 13th. Join the BAJEDI Committee at the CU Natural History Museum and explore a world from millions of years ago! Refreshments will be served, please see flyer for more details.

**View
Flyer**

Map Library Monster Map Hunt

Drop by the Earth Sciences & Map Library from 10:00 am to 8:00 pm this Halloween and search for maps of monsters, urban legends and more. Grab treats and follow clues to locate all the mysterious maps around the library. Hunt if you dare!



Halloween Treats

Trick or treat? From 1:00pm to 3:00pm this Halloween, treats will be available in the front office. Visit us in Benson 285 for some scary good sweets.

Talks and Colloquium

Geological Sciences Colloquium Speaker

On Wednesday, October 30th, Dr. David Vetsch will be visiting as a colloquium speaker. His topic is: How much river dynamics can humans bear - how much the fish? As always, snacks and drinks will be available at 12:00 and the talk will begin at 12:30. Stop by Benson 380 to listen in.



**View Colloquium
Schedule**

GEOL Electives and Field Classes

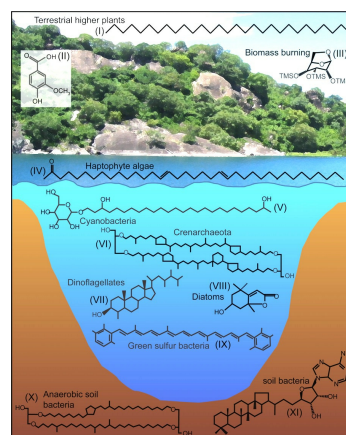


GEOL 4021 - Petrology: Evolution of Crustal and Mantle Rocks (4 Credits)

Petrology is the study of rocks and the processes that produce them. This course is on igneous and metamorphic petrology.

Crystalline rocks provide us insights into Earth's past and processes. For any given rock, we may want to know where it came from, how it got here and what happened along the way. Under what conditions did all of this happen (e.g., pressure, temperature, oxidation state, etc.)? Remarkably, all of these questions can be answered using the composition, mineralogy, etc. of the rock samples, but to do so requires understanding the laws of nature and thermodynamics. This course combines lecture and laboratory exercises to develop this skillset highlighting both regional (Mountain West) and type localities for igneous and metamorphic rocks.

This is a hands-on laboratory course with two hours of lecture per week and two 2-hour lab periods. This arrangement gives



GEOL 4611 - Organic Geochemistry (3 Credits)

Explores the biomarker concept as a tool to elucidate microbial, biogeochemical, and climatic processes in natural systems through three fundamental goals: a) characterization and classification of organic molecules in complex, natural mixtures; b) biosynthesis, transport, transformation, preservation and destruction of organic matter in nature; c) application of lipid biomarkers and their stable isotope composition to study biological, biogeochemical, and climatic processes in modern and ancient systems.

Requisites: Requires prerequisite course of CHEM 1113 or CHEM 1400 (minimum grade C-).

Recommended: Prerequisite GEOL 3320 or GEOL 4270.

you time to practice the concepts we cover in lecture with real rock samples. Well, except for the Jelly Belly Magma Chamber lab – pictured above. In that particular lab, you get to practice making igneous rocks to understand planetary differentiation.

This course may be a good fit for you if you are interested in becoming a professional geologist, planetary scientist, would like to consider working in material development (glasses and ceramics are just man-made frozen-lavas and rocks!), or just enjoyed learning about rocks in Earth Materials. This course is cross-listed with GEOL 5021 with the majority of seats prioritized for undergraduate students. Looking forward to seeing you in the Spring!

[View Syllabus](#)

[Register for Classes on your Buff Portal](#)

Scholarships and Stipends

PhD Projects

There are currently two exciting PhD projects looking for help, with scholarships through the ARIES Doctoral Landscape Award (subject to confirmation, at the University of East Anglia in Norwich, UK.). Please contact Jess Johnson (Jessica.johnson@uea.ac.uk) or Lidong Bie (l.bie@uea.ac.uk) for more information and an informal chat. Deadline for applications is **January 8th, 2025**.



Magmatic Plumbing Project

Fibre Optics and Machine Learning Project

Rich Herbert Memorial Scholarship

Offered through the Colorado Section of the American Water Resources Association, this scholarship is open to undergraduate students. It is geared towards students with



involvement in research or independent study pertaining to hydrology, engineering, hydrogeology, geomorphology, aquatic biology, water law, water-resources policy or planning, environmental science or other topics concerning water resources in Colorado. The application deadline is **January 10th, 2025.**

Learn More and Apply

AWG Brunton Awards

The Association for Women Geoscientists is now accepting applications for the 2025 Brunton Awards, awarded annually to advanced undergraduate ($\geq 3^{\text{rd}}$ year) and graduate students with a passion for and experience with field work and whose gender has been historically under-represented in the geosciences. Awardees receive a Brunton compass, a 1-year AWG membership, and up to \$1000 towards field-related expenses. Applications are due **December 15th**.

Learn More and Apply

Association for Women Geoscientists Brunton Awards

Promoting the future of field work for the upcoming generation of geoscientists whose genders have been historically under-represented in the geosciences.

Applications due Dec. 15

Awardees receive a Brunton compass, up to \$1000 for field-related expenses, and a 1-year AWG membership



learn more at
www.awg.org/ScholarshipsandAwards

Student Jobs and Internships

CRESCENT Program

Cores to Code (C2C) is a 3-week paid summer research experience that will delve into the interdisciplinary study of the earthquake and tsunami history of the Cascadia subduction zone. The program will be based out of Cal Poly Humboldt, a minority-serving institution. Students will conduct geologic fieldwork in Humboldt Bay coastal marshes, collect marsh sediment cores, conduct laboratory analysis on the cores, and explore how these geologic data are integrated into the geophysical models that help characterize past earthquakes along the Cascadia subduction zone. At the end of the program, students will synthesize and present their findings to their peers, mentors, and local community. C2C seeks a broad applicant pool with the goal of engaging a new, diverse generation of coastal geologists and modelers. The application deadline is



[Learn More and Apply](#)



Antero Internship

Antero Resources Corporation (“Antero”) is an independent oil and natural gas company engaged in the exploration, development, and production of natural gas, NGLs, and oil properties located in the Appalachian Basin. The 2025 Summer Internship Program will provide successful candidates with a relevant and immersive work experience. Internships will be based in Denver, CO or Bridgeport, WV and consist of opportunities across several departments including but not limited to Accounting; Drilling & Completions; Finance; Geology; Health, Safety, Security and Environmental (HSSE); Land; Legal; Midstream; Reservoir Engineering & Planning and Water.

[Learn More and Apply](#)

Graduate Programs

San Diego State

The Department of Geography at San Diego State University seeks highly motivated students for its Graduate Programs including:

- MA in Human and Environmental Geography,
- MS in Geographic Information Science,
- MS in Watershed Science, and
- Ph.D. in Geography, offered jointly with the University of California, Santa Barbara.



There will be a virtual open house for prospective students on November 21, 2:30-4pm Pacific Time. The link to register for the meeting is below. Applications are due on **December 1st**, and official documents are due by December 15th. Students in SDSU graduate programs perform original research and write thesis and dissertations in a variety of subjects including:

- Human geography
- Environmental geography
- Geographic information science

- Watershed science

Funding is available through graduate assistantships, teaching assistantships, scholarships and grants. All Ph.D. students are funded for 4 years, including salary and tuition at SDSU and UCSB. MS Research Assistantships are also available for the following grant-funded projects: students should contact the listed faculty member:

- Sustainable agriculture, water quality, global crop mapping (3 projects, Trent Biggs, tbiggs@sdsu.edu)
- Continental-scale hydrologic processes (Hilary McMillan, hmcmillan@sdsu.edu)

Visit the [Department of Geography website](#), get to know their [faculty](#), and learn more about and apply for the [Masters](#) and [Ph.D.](#) programs.

**Learn About
Masters**

**Learn About
Ph.D.**

**Register for Informational
Meeting**

Miss a Newsletter?

Check out past newsletters at [this link](#)!

Just So You Know...

The undergrad newsletter will be sent out each Thursday at noon, so check back weekly for news, job and funding opportunities, and messages from your faculty. If you have something you would like to share in a future edition of the newsletter, please email geoloffice@colorado.edu.



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