



January 31st, 2022

Happy Last Day of January!

The semester is rolling right along, and with that there are several up-coming deadlines that can quickly creep up on you. Please take some time to review them below.

Along those same lines, have you had a chance to explore the new content and reorganization of the GDPE website? We have been working on updating the site for about a year. One of our goals is to have critical information easily accessible. Here are a couple suggestions of what to check out:

- Under the "Program" menu, you'll find the [Guide to Your Degree](#) page. This has information about how to submit your GS6 Program of Study, the Expectations for student/advisor relationships, and Graduation Requirements.
- The "[Resources](#)" menu is filled with, well... resources that we hope you will find helpful, including a [new calendar of up-coming events!](#)
- Filtering is available under our [Faculty Directory!](#) Identify faculty with expertise in a particular ecological subdiscipline, taxon, or ecosystem. Here's one to get you started... search for faculty with the following filter: "Global Change", "Earth Systems Ecology", and "Atmosphere" ;)

Speaking of which... don't forget that this week our own **SCOTT DENNING** will be presenting a seminar on "**Net Zero Doesn't Mean What You Think It Means**" as our [2021-2022 Resident Distinguished Ecologist!](#) Meet us in the LSC North Ballroom on Wednesday, February 2 starting at 3:30 for mingling followed by the seminar at 4:00 and then a reception. We will also be live streaming the seminar on Youtube [here](#). More information can be found on (guess where...) the GDPE Website! We look forward to seeing everyone there! Please contact [Alan Knapp](#) if you would like to schedule a time to meet with Scott Denning.

Have a great week!
Jennifer

Hello GDPE folks,

I am hoping to host a data visualization workshop series and would love to get some help from you all!

We are hoping to host at least 1/month with a focus on a different software each month. The sessions will be about 1.5-2 hours long with flexibility for the exact time. These workshops are meant to be informal, and a chance for graduate students to come together and work on data visualizations together, getting feedback from their peers.

However, we need some leaders that are willing to host the session. The leader(s) will introduce the software, and give a quick tutorial (about 30 minutes), then help students work on creating their own visuals. The leader will be available for questions, advice, and troubleshooting during the 2-hour session.

If you would be interested in leading a session like this, please fill out this quick [survey](#) and I will get

back to you!

Thank you all,

Elizabeth Diaz-Clark
GDPE SciComm Fellow

ECOLOGY & CSU EVENTS

The Front Range Student Ecology Symposium February 23-24

FRSES is a student-run symposium at Colorado State University that provides an opportunity for students to showcase their work and network in a friendly and supportive peer environment. This year's conference will be held in-person Wednesday - Thursday, February 23-24, 2022. Oral and poster presentations will be scheduled throughout Thursday.

DEADLINES

GDPE Deadlines

February 1 - Annual Student Progress Report - see email from Jennifer Neuwald and detail [here](#).

February 7 - If you are graduating, please get your draft GS25 to Jennifer before submitting to the Grad School

February 14 - GDPE Small Research Grant Proposals due

February 28 - GDPE Travel & Professional Development Grants due

Other Deadlines

Feb. 2 – by Noon (MT)

- Request for Change of Department and/or Degree Program (GS7) for SPRING 2022

Feb. 11 – by 4:45 pm (MT)

- SPRING 2022 GRADUATES – Deadline to Apply to Graduate
- Deadline for Application for Graduation GS25 Form (students applying to graduate for the first time) OR Reapplication for Graduation (students who have applied to graduate for a previous term). Access the form on **RAMweb**.

Find all of the deadline details on the CSU Graduate School's website [here](#).

Find all of the registration details on the CSU Registrar's website [here](#).

COURSES

In case you still haven't finalized your schedule!

ECOL 592 Interdisciplinary Seminars

◆ **ECOL592 001 "Overpopulation and Ecological Sustainability"** (Dr. Philip Cafaro)
CRN:18824 **Credits: 1 Please register for 1 credit only.**

◆ **ECOL592 002 "Plant-soil feedbacks and drought"** (Dr. Melinda Smith, Carina Donne, Alex Siggers)
CRN 10126 **Credits: 1 Please register for 1 credit only.**

◆ **ECOL592 003 "Understanding the ecological impacts of drought from drought experiments"** (Dr. Alan Knapp) CRN 15033 **Credits: 1 Please register for 1 credit only.**

Terrestrial Ecosystem Isotope Ecology (SOCR670) Spring 2022
Instructor: Francesca Cotrufo

Are you curious to know what isotopes are and how they naturally behave in terrestrial ecosystems biogeochemistry? Do you want to know if isotope methods can help you addressing your research questions? Do you want to gain practical skills measuring C, N and water stable isotopes concentrations and analyzing isotopic datasets? More information [here](#).

Transdisciplinary convergence: solving complex socio-ecological problems (FW696) Spring 2022

Instructors: Kyle Horton and Jeffrey Kelly (University of Oklahoma)

Participants in this seminar will explore best practices and examples of transdisciplinary convergence research for solving complex socio-ecological problems. The most compelling and challenging problems we face are at the boundary of society and ecology. Traditional disciplinary and multi-disciplinary approaches have proven inadequate for resolving these problems. Recently the National Academy of Sciences and the National Science Foundation have emphasized a new Transdisciplinary Convergence approach to make progress on these complex issues. This research approach is identified by: (1) addressing a specific, complex, and compelling problem; (2) engaging a research team that has deep integration across disciplines; and (3) having a research design that plans for transdisciplinary integration beginning at project initiation. More information [here](#).

One Healthy City (PBHL692A) Spring 2022

The One Health Institute team is excited to announce the first for-credit course offering sponsored by OHI. "One Healthy City" (PBHL692A) is a 1-credit seminar course open to all graduate students across colleges and programs. The One Healthy City Project will bring together these interdisciplinary graduate and professional students to enhance our local community through the implementation of the 10-minute walk initiative. The course is a combination of seminars delivered by CSU faculty and City of Fort Collins staff, and project-based learning to create real-world recommendations for neighborhoods in Fort Collins. This group's work will be used to develop the concept of Nature in the City of Fort Collins. This is a great opportunity for students who have an interest in One Health, public health, community-engaged scholarship, and community health. Contact **Sue Vandenwoude** for more information.

Tools for Food-Energy-Water System Analysis (CIVE 527) for Spring 2022.

9:00 - 10:50 am on Mondays and Wednesdays. The course includes lab time from 9:50 - 10:50.

Course Description: This 3-credit hour course aims to equip students with tools to be used across disciplines that advance capacity to assess complex FEWS issues. Statistical analysis and data mining approaches are included to explore prevailing relationships amongst FEWS under varying conditions. Tools and approaches introduced include statistical analyses, life cycle assessment, triple bottom line analysis, and multi-criteria decision analysis. [Syllabus](#) More information [here](#).

New online course - Ecosystem Services on Agricultural Lands

Dr. Dana Hoag in Agricultural and Resource Economics is offering a new online graduate course this Spring: AGRI 638 – Ecosystem Services on Agricultural Lands. Tuition is set at in-state rates, even for non-residents. Check it out or register at:

<https://www.online.colostate.edu/courses/AGRI/AGRI638.dot>

Course description: This course applies an economic lens to look at buying and selling ecosystem services. Students will learn about ecosystem services, but focus on how farmers, ranchers, and other extensive land users can improve their sustainability by earning revenues from resources on agricultural properties. Examples include selling carbon credits, wildlife banking, hunting and agrotourism. We will dig deep to find unique and innovative ecosystem services, and about how to market them. All students will create an ecosystem marketing plan on an actual farm, ranch or other appropriate extensive properties.

ANTH 570 Paleoclimate and Human Evolution Spring 2022

Instructor: Andrew Du

The class will be a seminar, wherein we discuss how one makes paleoecological inferences with the archaeological/fossil record (so it's a paleoecology class). Topics will include fundamental ecological theory, how we reconstruct paleoenvironments, how we deal with sampling/preservation biases, etc. The topics will be theoretical/methodological and will not be tied to any particular place or time period (though of course we will draw upon certain places and time periods for examples).

Plan Ahead! Fall 2022

ESS 575 - Models for Ecological Data - Dr. Tom Hobbs, Professor Emeritus

Lecture: TR 9:30-10:45 Lab: W 1-2:50 Gaining insight about the operation of ecological processes using models and data.

WR 574 - Advanced Snow Hydrology - Professor Steven R. Fassnacht

Lecture: TR 9:30-10:45 Recitation: T 12:30-2:00 In-depth study of snowpack processes and modeling, time series data analysis, and discussion of the literature.

Send us your photos! Now more than ever, it's important for us to keep in touch. Send us your photos of your WFH desk, from the field, or just photos of you relaxing and enjoying summer!

[Submit Photos](#)

All paperwork: Please email forms to Dawn at ecology@colostate.edu to coordinate signatures and processing. Thanks!

We want your feedback! Do you have comments or suggestions about how your GDPE experience can improve? Let us know! Contact your ExCom Student Representatives, [Andreas Wion](#) and [Sarah Carroll](#) to provide your feedback.

Stay in touch by tagging GDPE in your posts and photos on Twitter - @CSU_Ecology and use hashtags #GDPE and #CSU_Ecology. We'd be happy to help highlight your research!

[General Student Resources](#)
[COVID Resources for Grad Students](#)
[CSU COVID Recovery Resources](#)

GRANTS & JOBS

GS-12 Research Landscape Ecologist – USDA

Application Due Date: February 14

The USDA Forest Service [Upland Hardwood Ecology and Management Research Unit](#) in the [Southern Research Station](#) is seeking applications for a full-time GS-12 Research Landscape Ecologist to conduct research of spatial patterns of forests and wildlife across large landscapes, and use existing and newly developed models to scale up site- and stand-level data to the landscape scale. The position will be located in Knoxville, Tennessee. [USAJobs.com](#) More information [here](#) Questions about the position should be directed to Susan Loeb (susan.loeb@usda.gov).

Frontera Computational Science Fellowships June 1, 2022 - May 31, 2023

Application Due Date: February 18

TACC is pleased to announce the Frontera Computational Science Fellowship program, a unique opportunity for graduate students to perform cutting-edge computations on the most powerful supercomputer available to academic researchers in the world. More information [here](#).

Swiss Federal Institute for Forest, Snow and Landscape Research WSL

Application Due Date: March 15

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is part of the ETH Domain. Approximately 600 people work on the sustainable use and protection of the environment and on the handling of natural hazards. The Research Unit Community Ecology is interested in how above- and belowground ecosystem patterns and processes influence communities and their dynamics. By **October 2022**, the Research Group Plant-Animal Interactions is offering a tenure-track position as Soil food web ecologist 80-100% (f/m/d) More information [here](#).

Research Associates I, II, III, IV and Senior - Open Pool

Application Due Date: June 30

The Department of Biology seeks applications from individuals who are interested in obtaining temporary or special research positions within the department in the areas of cell and molecular biology, physiology of plants or animals, animal behavior, ecology, evolutionary biology and computational/theoretical biology. Detailed descriptions of the research programs of the individual faculty are available on the department web page:

<http://www.biology.colostate.edu/people/jobs.colostate.edu> More information [here](#)

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PROGRAM IN ECOLOGY
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