



# GDPE Weekly Digest



December 13th, 2021

Hello fellow graduate students,

We have come to the last week of school and whether this is your first semester, you are somewhere in the middle, or you are going to be leaving GDPE at the end of this week, let's all take a collective breath and acknowledge that we have completed another (huge!) step towards bettering ourselves and hopefully the world around us. To those leaving GDPE, we wish you the best. We know you are armed with the skills and experience to have confidence walking forward in the next steps of your life. Congratulations to Fall graduates (from top to bottom and left to right):

Hayley Bubb, Ezequiel Fernandez Tschieder, DeeDee Wright, Brian Woodward, Erika Peirce, Casey Barby, Taryn Contento, Courtland Kelly, Ingrid Slette, Khum Thapa Magar, Tomas Pickering, and Emily Stuchiner!

Cheers,

Taryn

## Fall 2021 Graduates!



## GDPE EVENTS & ANNOUNCEMENTS

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### Save the Dates: Upcoming Distinguished Ecologist Seminars

February 2 - Dr. Scott Denning

March 23 - Dr. Andrea Grover

April 13 and 14 - Dr. Alonso Ramirez

April 27 & 28 - Dr. Peter Reich

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## ECOLOGY & CSU EVENTS

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### The One Healthy City Seminar

**Spring Semester 2022.** Class sessions will be Wednesdays at 5 p.m.

The One Healthy City Seminar will bring together interdisciplinary graduate and professional students with the goal of applying One Health knowledge to enhance our local community through the implementation of the 10-minute walk initiative. Faculty advisors and liaisons from the City of Fort Collins will present a series of seminars that provide the context for aspects of city planning, Nature in the City, and incorporation of One Health concepts that will support the development of Fort Collins as a city that has adopted the 10-Minute Walk initiative. **Graduate seminar course One Healthy City, PBHL692A.** Students wishing to participate should register for the course via RAMweb. More information [here](#).

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## DEADLINES

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### Dec. 17 – by 4:45 pm (MT)

- FOR FALL 2021 GRADUATES –
  - Clearance of all incompletes/grade changes (if applicable)
  - Completion of all course requirements (if applicable)
  - **GS52 Graduation Clearance Response** (if applicable)
  - **GS25B Departmental Requirements Clearance** (if applicable)

### Other Deadlines

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](#).

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## COURSES

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### Upcoming Courses of Interest

#### ECOL 592 Interdisciplinary Seminars

**Please note: Students are welcome to take multiple 592s in a semester.**

◆ **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.*

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## **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.

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**Send us your photos!**

**Our First Distinguished Ecologist Seminar with Dr. Sally Aitken**



**In person**



**and virtual**



**an overall success!**

*photos courtesy of Hannah Hecox*

**Submit Photos**

**All paperwork:** Please email forms to Dawn at [ecology@colostate.edu](mailto: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

**Post doctoral Research Fellow Level 1 or Level 2, UCD School of Biology and Environmental Science, 34 month post - School of Biology and Environmental Science, University College Dublin**  
**Application Due Date: Extended**

We are looking to appoint a post-doctoral fellow with expertise in soil and root microbial ecology to conduct research on the resistance and resilience of grasslands under combined extreme flood and drought events. The post is part of a 4-year Science Foundation of Ireland funded project entitled "Delivering food security from grasslands by understanding the link between root microbial networks and resilient agriculture". Job description [here](#). Apply [here](#).

**Eastern Ecological Science Center at the Leetown Research Laboratory - Research Biologist**

**Application Due Date: December 16**

Perform analyses on the impacts of stressors (e.g., climate, habitat loss, invasive species, disease) and conservation efforts on species distribution, occupancy, and viability for at-risk or imperiled species and communities; Lead teams involving multiple stakeholders through structured decision making or equivalent process to analyze science-based options for complex decisions in natural resource management or biological conservation; Conduct risk assessment, species distribution modeling, population modeling, scenario analysis, formal expert elicitation, or decision analysis; and publish in peer-reviewed journals within conservation biology or decision analysis professions More information [here](#).

**Desert Tortoise Program Manager**

**Application Due Date: December 17**

Conservation Science Partners (CSP) is seeking a Program Manager to provide the coordination and stewardship needed for multiple research projects, associated technical expertise, and partner and client relations support, as part of a team of conservation biologists, ecologists, and social scientists working on efforts to conserve species and their habitats, primarily the Mojave desert tortoise. More information [here](#).

**Soil ecology group seeks motivated Ph.D. students - University of South Bohemia, České Budějovice, Czech Republic**

**Application Due Date: January 5**

Our research team from University of South Bohemia, České Budějovice, Czech Republic specialized in soil ecology and microbiology engages in a new project focusing on the ecosystem functioning in the natural forest life cycle. Our aim is to understand: How the vegetation status and composition of decaying organic substrate across the gradient of forest disturbance and subsequent vegetation regeneration affect: soil N-availability dynamics, soil microbial processes, and capability of forest soils to retain N More Information [here](#).

**Stewardship Technician - The Nature Conservancy**

**Application Due Date: January 7, 2022**

The Conservation Stewardship Technician (CST) performs and participates in preserve operations, maintenance, and management. This position will be involved with many aspects of managing approximately 3,500 acres of prairies, wet meadows, and wetlands of the Platte River Prairies Preserve along the Central Platte River Valley just south of Wood River, Nebraska. More information [here](#).

**John J. and Katherine C. Ewel Postdoctoral Fellowship in Ecology and Environmental Science in the Tropics and Subtropics**

**Application Due Date: January 9, 2022**

The John J. and Katherine C. Ewel Postdoctoral Fellowship Program in Ecology and Environmental Science in the Tropics and Subtropics will enable a recent doctoral recipient to study tropical or subtropical ecology and environmental sciences at the University of Florida (UF). The Fellow will conduct research for two years with a UF faculty member in any department, in any subdiscipline of ecology or environmental science. The fellowship is intended to advance science and enrich the scope and depth of research credentials of both the Fellow and the faculty mentor. A successful application will be based on a partnership between the applicant and the mentor that builds on the strengths of both. Evidence of joint development of the research proposal is key. More information [here](#).

**InTERFEWS Application Period for Fall 2022 Trainee**

**Application Due Date: January 14, 2022**

Interested in food, energy or water systems and sustainability issues? Consider applying for the new Interdisciplinary Training, Education and Research in Food-Energy-Water Systems ([InTERFEWS](#)) graduate traineeship program created to integrate **Food-Energy-Water (FEW)** education using a systems-based approach that cuts across disciplines, departments and colleges. [InTERFEWS](#) is currently accepting CSU PhD candidates to join the fall 2022 semester, with priority given to those entering the 1st or 2nd semester of their PhD program (those beyond their 3rd semester are not eligible). More information [here](#).

**ESA scientists in Parks Fellows National Park Service**

**Application Due Date: January 23, 2022**

The Scientists in Parks (SIP) Fellows program is now accepting applications from current upper-level undergraduate and graduate students for summer 2022 opportunities with the National Park Service. Each opportunity with the SIP Program affords a distinct and memorable experience with projects that vary based on location, focus, and complexity. This year's projects include tracking coral reefs at War in the Pacific National Historical Park, community-based education and outreach at Everglades National Park, and surveying pollinator abundance at Yosemite National Park. Visit the website to get the full list of 2022 opportunities! More information [here](#).

**Microbial Biologist State University of New York at Oswego**

**Application Due Date: Open until filled**

The Assistant Professor of Microbial Ecology teaching responsibilities may include BIO 310 (Microbiology lecture and laboratories), BIO 120 (Molecular and Cellular Foundations lecture and laboratories), and BIO 316 (Laboratory in Genetics). The Assistant Professor will teach advanced courses in area of expertise that may include BIO 311 (Ecology of Host-Microbial Interactions), BIO 342 fungal biology, and may contribute to capstone courses. More information [here](#).

**Postdoc in American kestrel hierarchical modeling and decision analysis - New Mexico State University**

**Application Due Date: Open until filled**

A postdoctoral research opportunity to examine American kestrel population trends at the continental scale, and lead a decision analysis to identify future research priorities. More information [here](#).

**Graduate Research Assistantship (PhD) Spatio-temporal sage grouse population modeling (Reno/Tahoe)**

**Application Due Date: Open until filled**

We seek a PhD student to work with a large collaborative and interdisciplinary group of researchers consisting of wildlife biologists, ecologists, natural resource economists, and

sociologists. The overarching goal of this research project is to examine how external drivers and range management affect the interrelationships between improving range productivity, ecosystem health, and the socio-economic outcomes in managed sagebrush rangelands. More information [here](#).

[Submit Job Announcement](#)



GRADUATE DEGREE  
PROGRAM IN ECOLOGY  
COLORADO STATE UNIVERSITY

