



**Fall 2016 Important
Dates**

October

16 - Last day to withdraw from a course and/or to turn in paperwork for Repeat/Delete

23- Spring 2017 registration begins. **Check Ram-Web for your designated date and time.**

November

20-24 - Fall recess; no classes this week.

23-24 - All CSU Offices are closed.

27- Classes resume

December

7 - Last day to process a University Withdrawal

11-15 - Final Exams

15-16 - Commencement Ceremonies.

20- Fall grades available on RamWeb

25-27 - Winter holiday; University Closed



Registration for spring 2017

Priority registration begins October 23rd

Seniors begin October 24th * Juniors begin October 27th

Sophomores begin November 3rd * Freshmen begin November 10th

Be sure to check Ramweb for your individual registration access date and time and **register ON TIME!**

If you are not able to speak with an ASC prior to registering, do your best to register on your own then come talk to us!

If this is your first semester at CSU, you must get your advising code from an ASC in order to register.

As always, appointments are scheduled online at <http://www.biology.colostate.edu/undergraduates/advising/>

Walk in hours this semester:

Tuesdays, Wednesdays, and Thursdays 1pm-3pm

To learn more about what faculty, staff, and students in the Department of Biology are up to, check out our website:

<http://www.biology.colostate.edu/>

IN THIS MONTH'S NEWSLETTER:

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ATTENTION STUDENTS ON ACADEMIC PROBATION
IT IS TIME TO SCHEDULE AN APPOINTMENT WITH AN ASC!

The Biology department requires all Biology and Zoology majors who are on academic probation to work closely with an Academic Success Coordinator. Everyone on Probation I or Probation II **has already received an email** outlining departmental expectations.

- ◆ **If you are on Probation I**, you will need to view an online video and complete an academic self-assessment. You are then required to schedule an advising appointment to meet with an ASC and to get your advising code.
- ◆ **If you are on Probation II**, you'll need to make an appointment with an ASC to discuss your status, university dismissal policies and appeals, and to get your advising code.

October 16th is the last day to withdraw from individual courses and also the last day to submit any repeat/delete forms to the Registrar's Office

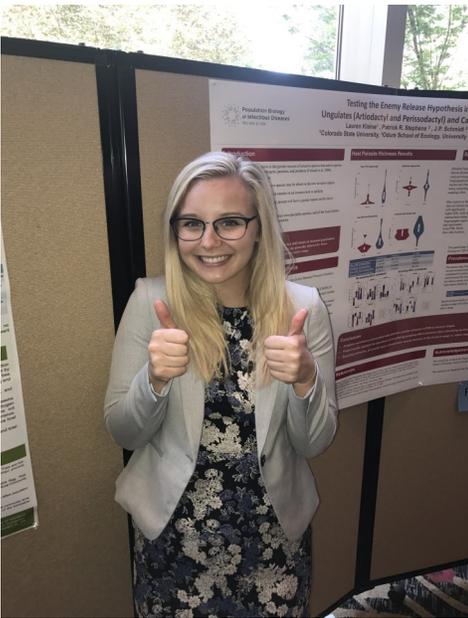
There will be additional walk-in hours on October 13th from 9-11am and October 16th from 9-11am and 1-3pm to provide support for students with questions/concerns about withdrawing

Here are some common registration error messages and what they mean:

If you run into an error be sure to read it! You can often solve registration errors on your own without having to email an ASC and wait for a response.

Error message	What it means	When you might get it	What to do
<i>Class level</i>	Only students in a certain class level (fr/so or jr/sr) can register for a given course.	Few (if any) Biology courses have this restriction but other departments' courses (e.g., Psychology) may have it.	If you NEED the course, contact the home department for access.
<i>Multiple Components Required</i>	In addition to the lecture, you have to register for another component (lab or recitation) at the same time.	Many biology, chemistry, and physics courses are commonly associated with this error.	Check boxes for each component PRIOR to hitting "register." Click the CRN for the lecture to see specifically which sections of lab/recitation that must be selected.
<i>Major Restriction</i>	You do not have the right major for a class.	Some classes are restricted just to students in that major (Business/Art are examples); may allow non-majors to register after a certain date.	Click on the CRN for details about major restriction—if the class opens to non-majors at a certain date, it will tell you that info here.
<i>Prerequisite</i>	You fail to meet at least one prerequisite for the class.	BZ310 is an example (though most biology courses have prerequisites). It requires a semester of organic chemistry as a prerequisite.	You'll need to take the prerequisite courses prior to registering for the course in question. If you think this is an error, contact your advisor.
<i>Dept. or Instructor approval</i>	Registration for a certain class is limited and only approved on a case-by-case basis.	An example is BZ505 Cognitive Ecology - it requires permission from the instructor for undergrads to enroll.	If you seek access to a class requiring dept./instructor approval, contact the instructor listed or the department.
<i>Stop enrollment</i>	A department has stopped enrollment so that no one can register for the class until a problem is resolved.	Hard to say—stop enrollments can happen in any department due to unforeseen changes.	Try registering for a different section of the same class, or contact the department to find out more information.

Biology Student Lauren Kleine Talks About Her Experience at a Summer REU Program



Q: Has this experience altered or help to shape your career path? If so, how?

A: I went into the The Population Biology of Infectious Diseases program with an interest in computational biology, but no real experience. I knew this internship would show me if this field is something I truly enjoy or not. After spending an entire summer coding for my project, I now feel even more excited about using computational biology in future research.

Q: What was your favorite part of this experience? Was there anything that surprised you?

A: My favorite part of the internship was acquiring programming experience and understanding that I would have never received in a traditional classroom setting. Entering the program, I had a great deal of laboratory experience, but very little quantitative research experience. I knew I was interested in computational biology, but had not found an opportunity to explore this field yet. I began the program with no coding experience, and spent my entire summer working in R on a highly quantitative project. I was surprised by how quickly I was able to pick up the coding language and apply it to my project.

Q: Where was the program, what type of research were you doing, and how did you get involved in this?

A: The Population Biology of Infectious Diseases REU Program was hosted by The University of Georgia's Odum School of Ecology. The research of this program focused on studying patterns of infectious diseases and required highly quantitative computational biology techniques. I was recommended to this program by a graduate student I was working for last semester. She knew I was interested in learning how to code, and forwarded me the application.

Q: How has this experience contributed to your education and understanding of biology?

A: This experience contributed to my education by giving me a greater appreciation for what I've learned through years of biology classes and labs. The opportunity I had this summer solidified my understanding in fundamental topics in biology through real-world research applications.

Q: What was the most valuable thing you learned?

A: The most valuable thing I learned was how to be a researcher. I learned important time management skills, such as setting up a project timeline and holding myself accountable. I learned how to create reproducible research in both a lab notebook and markdown files for code. I was able to find a balance in learning to work independently and use all available resources, and making appointments with my advisors when I truly needed help. I received ample practice in organizing and presenting research this summer, which was challenging but extremely rewarding.

Q: What advice would you have for students wanting to get involved in undergraduate research?

A: My advice for students who are interested in undergraduate research is to not hesitate in getting involved. I was initially intimidated to find a lab to work for, and I always had excuses for why I didn't feel that I was qualified. I wish I had the courage to ask around sooner, because assisting in a lab gave me a greater appreciation for research and a better understanding in my field. It is never too soon or too late to find a lab at CSU. Volunteering in a lab is a fantastic way to gain experience and confidence in your field, and there are plenty of labs on campus who would appreciate your assistance. My lab assistant position is where I initially gained the confidence that I carried throughout the internship.



Biology Student Hannah Backiel Talks About Her Summer Internship at the WOLF Sanctuary

Q: Where was your internship, and how did you get involved in this?

A: My internship was at the WOLF Sanctuary in Laporte, Colorado. I got involved by first doing some volunteer work for a different organization, the Rocky Mountain Wolf Project, and then submitting an application to the sanctuary after talking to professionals in the field.

Q: How has this experience contributed to your education and understanding of biology?

A: Although WOLF does not release wolves after rehabilitation, I was required to know a lot about the history and significance of wolves in North America. I am now much more aware of how important large predators are to the health of an ecosystem and how American culture has falsely branded the wolf as a villain that must be exterminated.

Q: Has this experience altered or helped to shape your career path? If so, how?

A: This experience has helped open my eyes to the different job opportunities available to Biology graduates. I got to talk to veterinarians, vet techs, education and outreach coordinators, and animal caretakers. My internship has definitely helped me expand my list of possible career paths.

Q: What was the most valuable thing you learned?

A: The most valuable thing I learned this summer was to ask questions. The staff at the WOLF Sanctuary were all very knowledgeable as well as enthusiastic about their work and more than willing to share that knowledge with anyone who asked. I learned so much by just talking to my supervisors.



Q: What was your favorite part of this experience? Was there anything that surprised you?

A: My favorite part of my internship was by far the hands on experience I got. As an intern I participated in daily feeding, socialization with the wolves, and even animal capture for vet visits. I was surprised to discover that each animal had its own personality and the key to being able to socialize with them was knowing how to interact with each of those personalities. Additionally, one of the coolest things I got to do was participate in the Y-pole capture of a wolf being transferred to another enclosure. This is a technique developed by researchers in Yellowstone and is unique because no drugs are applied to the animal. Using long poles, caretakers apply gentle pressure to points on a wolf's body that encourages it to lay down and submit before being blindfolded and muzzled. It was one of the coolest things I've ever done!

Q: What advice would you have for students wanting to work with animals?

A: The best advice I can give to students looking to work with animals is to not procrastinate. Start filling out applications, meet people, talk to professionals who are specializing in what you want to do someday. Cool experiences don't just fall into your lap, you have to go looking for them!

FEDCONNECT

OCTOBER 5

CONNECT
WITH FEDERAL
AGENCIES AND
ORGANIZATIONS



The Career Center now has online appointment scheduling available for students at the following link: <https://colostate.joinhandshake.com/appointments/new>

October Club Meetings:

Zoology Club:

October 10th, 6-7pm
October 24th, 6-7pm
Both in Biology 136

Biology Club:

October 25th, 6:30-7:30pm
Eddy 102

*If you are not a member of these clubs, but are interested in joining, just show up to a meeting and learn how to get involved! All students are welcome!

The Career Center will also host the **Graduate School Fair** on October 25th from 11am-4pm

Location: Lory Student Center Ballroom C & D

*Application Process

*Personal Statements

*Choosing a Program

*Financial Aid

CSU Field Ornithologists

October 8th, 7:30am, Forestry Lot

*Birding trip to Timnath Reservoir

October 9th, 5pm, Wagar 231

*General Planning Meeting

All are welcome!

Denver Museum of Nature and Science



Tour ornithology collections with curators Garth Spellman and Jeff Stephenson

Partner trip with the Wildlife Disease Association.

October 15th | Forestry Lot at 8am

Space is limited!

email csuornithology@gmail.com to sign up

The CSU Field Ornithologists Club will also be doing a behind the scenes tour at the Denver Museum of Science and Nature on October 15th.



October Academic Success Workshops by TILT Learning Programs

Liven Up Your Learning

Novel and practical strategies to approach learning. - when, how, where, and with whom to study.

October 3rd at 4pm

October 4th at 5pm

October 5th at 6pm

A Deeper Dive

Enhance your critical thinking skills by learning how to examine information on a deeper level.

October 10th at 4pm

October 11th at 5pm

October 12th at 6pm

Living With Integrity

Ground yourself in pride and learn how integrity impacts your academics, student life, and future.

October 17th at 4pm

October 18th at 5pm

October 19th at 6pm

Self-Care

How to take better care of your basic needs - sleep, nutrition, and activities for holistic success.

October 24th at 4pm

October 26th at 6pm

Memory & Concentration

Learn information-recall strategies and how to enhance your ability to focus.

October 31st at 4pm

November 1st at 5pm

November 2nd at 6pm

All workshops are free to CSU students
And are located in TILT 221



FIELD BIOLOGY PROGRAM AT UNDERC

Your own field research ... Classes in the field ... 3 credits/summer
Travel, tuition and housing provided and a summer stipend (\$3500 East, \$4000 West)!!



UNDERC-East: Spend the summer studying northwoods ecology and conducting your own research in Michigan's Upper Peninsula.

UNDERC-West: Spend the summer studying the ecology of an intermountain valley in Montana, learn about environmental history and Native American environmental ethics, and conduct your own advanced research (Pre-requisite - UNDERC-East).



Apply now for UNDERC-East and -West for summer of 2018! These programs promote understanding of field biology and how field research is conducted through 10 weeks in the wilds. It begins with a summer at UNDERC-East in Michigan's Upper Peninsula and then the opportunity for a second summer at -West in Montana. UNDERC-East is open to 28 sophomores/juniors from any college/university. From the UNDERC-East class, 8 students (juniors or seniors) are selected for UNDERC-West. Each summer, you receive three-credits along with tuition, housing, travel between the Notre Dame campus and the site, and a stipend (\$3500 at East, \$4000 at West).

- **UNDERC-East (May 21–July 27):** 8000 acres of lakes, streams, wetlands, and forests owned by Notre Dame and a core site in the National Ecological Observatory Network (NEON) that are home to abundant wildlife (including beaver, porcupine, black bear, deer, loon). Course modules include vertebrate ecology, invertebrate ecology, aquatic ecology and forest ecology with each providing background information, field research exercises, and group research projects designed by the class. Five or more weeks are spent by each student designing and conducting their own field research project under direction of faculty or graduate students. Projects have ranged from fish, insect and mammal behavior and ecology to forest, lake and stream ecosystem ecology to local Native American ecosystem use.
- **UNDERC-West (June 6 – August 15):** more than a million acres on the National Bison Range and Flathead Reservation that includes grasslands, montane forests, streams and lakes that are home to abundant wildlife (including bison, elk, bighorn, pronghorn and mountain lion). The course includes modules like those at UNDERC-East in wildlife and grassland ecology, montane ecology, and environmental history/Native American ecology (in part during the cross-country drive to and from -West). Each student conducts an independent research project in collaboration with a faculty or graduate student advisor that is more advanced given the skills learned at UNDERC-East. Recent projects have included invasive plant ecology, animal behavior and habitat relationships, grassland, forest, wetland and stream dynamics, and Native American plant and wildlife use.

Applications are available online (<http://underc.nd.edu>). Further information can be obtained at the UNDERC website (<http://underc.nd.edu>), or from Dr. Michael Cramer, UNDERC East Assistant Director (mcramer@nd.edu), or Dr. David Flagel, UNDERC West Assistant Director (dflagel@nd.edu).

Application deadline is Friday, November 10, 2017 and notification of acceptance will be provided by **Monday, December 11, 2017**. Acceptance is based on past academic performance and a statement of purpose. Preference is given to students pursuing a career in environmental sciences. Applicants are required to be present for the duration of course.

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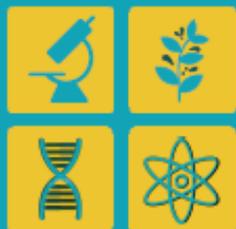
TEACH STEM



MAKE A DIFFERENCE



NSF Robert Noyce Scholarship Program



The scholarship program is for students who:

- Have earned at least 60 credits
- Are majoring in a STEM field
- Have earned at least a GPA of 3.0 to be most competitive
- Would like to pursue a career in STEM teaching

Noyce scholars will receive:

- \$10,000 scholarship per year for both Junior and Senior years
- \$1,000 stipend per year for the first two years of teaching
- Mentoring and professional development supports



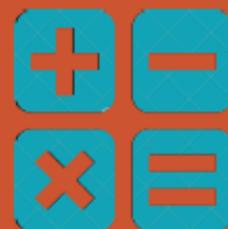
After graduation, Noyce scholars will:

- Teach 2 years in a high needs school district for every year of scholarship received
- Participate in mentoring and professional development activities

APPLY ONLINE: <http://cns.natsci.colostate.edu/noyce/>

APPLICATION DUE: March 9, 2018

CONTACT: noyce_info@mail.colostate.edu



Education Abroad Information Sessions



INTERNATIONAL PROGRAMS
COLORADO STATE UNIVERSITY

Learn more about specific regions, different program types, and various international opportunities. All info sessions take place at 12 p.m. in Lory Student Center Rooms 226-28.

SPAIN & LATIN AMERICA

Tuesday, September 26

ASIA, AFRICA & MIDDLE EAST

Wednesday, October 4

EUROPE

Wednesday, October 18

SHORT-TERM PROGRAMS

Thursday, October 26

AUSTRALIA & NEW ZEALAND

Monday, November 13

INTERNSHIPS ABROAD

Wednesday, November 29

