



Department of
Biology



Spring Break Appointments

Offered Monday through Friday, from 9:00AM-3:00PM. Please be careful about scheduling advising appointments during this time. We're happy to offer phone appointments, but don't schedule an appointment for a time you might be out of town.



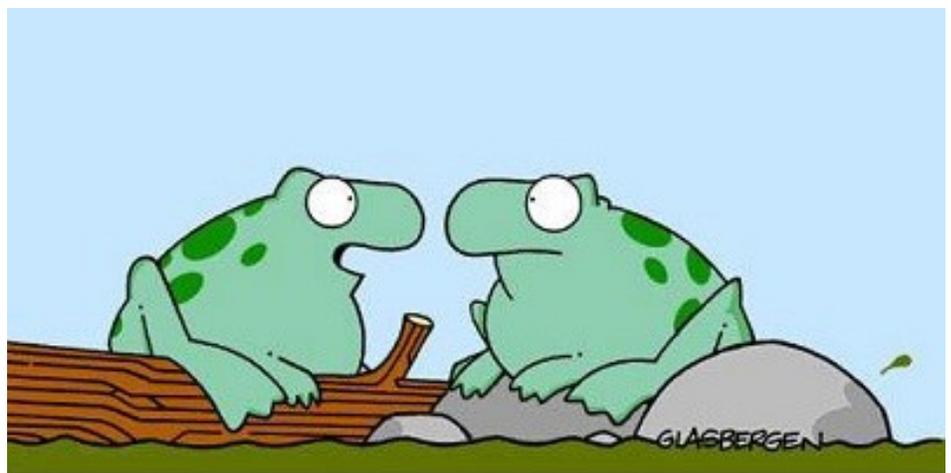
Spring Break Walk-Ins

Offered Monday through Friday, 9:00AM-11:00AM and 1:00PM-3:00PM, during Spring Break only. Regular walk-in hours are Wednesdays and Thursdays from 9:00AM-11:00AM and 1:00-3:00PM when school is in session.

**Monday, March
16 — Friday,
March 20**

In this month's newsletter:

- ◆ **Page 2:** Fall Registration & deadlines
- ◆ **Page 3:** Upcoming events & CNS Learning Community advising hours
- ◆ **Page 4:** BioTech Connect registration and speakers
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- ◆ **Pages 8 and 9:** Summer internships, volunteer opportunities & jobs



"Looks aren't everything. It's what's inside you that really matters. A biology teacher told me that."

Fall Registration



Fall 2015 Registration Access Start Dates

April 6 - Graduate & Professional, Second Bachelor's Students

April 7 - Seniors

April 10 - Juniors

April 17 - Sophomores

April 24 - Freshmen

New Students: Ram Orientation is required and all new students will register for Spring courses at on-campus orientation or through Online Ram Orientation.

Around registration time, advising appointments are usually booked up to three weeks out. Please plan ahead:

- ✓ Update your four year plan and bring a list of classes you have in mind for the upcoming semester (or two!) to your appointment or walk-in.
- ✓ Book an appointment now for March or early April. Plan to see an advisor at least two weeks before your registration date. (*Write yourself several reminders so you don't miss it!)
- ✓ Find your personal registration date by logging into Ram-Web and clicking on "Registration Access Date/Time" under the "Registration" column.



March 23rd is an important deadline!

- Last day to withdraw from a course with a "W" on transcript
- Last day to turn in Repeat-Delete form

Please come to walk-ins or make an appointment to speak to an advisor if you feel you may need to withdraw from a course. Walk-ins will be available from 9-11am and 1-3pm on Monday, March 23.

9th annual
ART & SCIENCE
Exhibition 2015

An exhibition examining the intersection of art & science.

IN THE
CURFMAN GALLERY

Register through Feb. 18 at cns.natsci.colostate.edu/artscience/
 or follow the QR code below

Exhibition dates: **March 3-27**

Opening Reception: **March 3 · 5-7 p.m.**



Art & Science Exhibition

College of Liberal Arts



College of Natural Sciences



College of Natural Sciences Learning Community

Your advisors are coming to you! At least once a month, an advisor will be available in the College of Natural Sciences learning community. We invite you to drop by for a walk-in if you have a question that could be answered in a 10-15 minute meeting. If you need more time, please set up an appointment to come see us in the Department of Biology. Upcoming dates include:

Wednesday, March 11 1:00-4:00pm

Wednesday, April 8 1:00-4:00pm

Mock Interview Day (Tuesday, March 10, 2015) Career Center, LSC – Rm. 120

All students and alumni are invited to attend Mock Interview Day in the Career Center on March 10. Interviews will be scheduled for 30 minute slots between 10:00AM-3:00PM. Unleash the secrets and practice your interviewing skills by having a mock interview with a mock interview specialist/ employer. *Registration is required!*

To sign up: Log in to CareerRAM using your CSU eName/password: <http://career.colostate.edu/Students/JobAndInternshipSearch/CareerRAM.aspx>. Place your cursor over “My Account” and click on “My Documents”. **Upload a current resume** that your interviewer will be able to view by clicking “Add” in the “Resumes” section at the top of the page. Place your cursor over “Job and Internship Interviews” and click on “Qualified Schedules”. Scroll down and click on “Mock Interviews” (Record #2641). Finally, click “Sign Up”, which will direct you to the remaining times available for a mock interview and then click “Sign-Up” again to select your time.





BioTech Connect brings together employers from the Colorado BioTech industry with students and faculty at CSU to network, learn, and discuss career opportunities.

BIO TECH CONNECT

This event will feature "TEDTalk" -style presentations about Next Gen Med Devices, Research and Therapy.

MAR. 5, 2015 5:30 pm - 8 pm LSC Grand Ballroom

RSVP Required

Scan here or visit our website to register

www.career.colostate.edu



Students



Employers

Colorado State University

BioTech Connect Speakers

Huntington Potter, PhD

Renowned scientist, Huntington Potter, PhD, joined the faculty of the University of Colorado Anschutz Medical Campus in July 2012 as Director of Alzheimer's Disease Programs in the Department of Neurology and Linda Crnic Institute for Down Syndrome. Dr. Potter has distinguished himself in the scientific world for his discovery of the relationship between Alzheimer's disease and Down syndrome. His research in this area is leading to the development of new treatments for both.

Dennis Pierro, PhD

Dennis Pierro, PhD, currently serves as Director of BioMARC, a biopharmaceutical manufacturing organization at Colorado State University. BioMARC produces therapeutics, diagnostics and vaccines for human clinical trials and commercialization. They specialize in high containment manufacturing and support projects that use microbial agents registered as biosafety level three (BSL-3), with some being restricted select agents by the US Centers for Disease Control and Prevention (CDC). As Director, Dr. Pierro oversees a program that includes professionals in biosafety, production, quality assurance, quality control, containment facilities, and contract and project management, among others.

Jason Case

Jason Case is currently the Senior Director of Research and Development in the Early Technologies group within Covidien-Medtronic. His expertise includes minimally invasive interventional devices with specific experience in cardiology and oncology. Throughout his career he's had the pleasure to research, develop, market and sell innovative planning, navigation and ablation devices for cardiology and oncology. He holds a BSE and MS in Biomedical Engineering both from the University of Iowa.



BIOLOGY COURSES OFFERED SUMMER 2015

Thinking about taking a class this summer?

Check out RamWeb's Class
Schedule Search and
summer.colostate.edu
for information about
registration, course offerings,
financial aid and more.

Registration begins March 24
at noon!

March 24: Registration Kick Off

Free tank tops to the first 500
students; free desserts

LSC Flea Market, 11:00am-
1:30pm

April 6: Are you waffling about summer school?

Free waffle breakfast and
information booths

Room 382 LSC, 9:00-11:30am

April 22: Pups on the Plaza

Learn about the dog days of
summer and enjoy free ice cream
and popsicles

LIFE 102 Attributes of Living Systems: Levels of organization, stability, and change in living systems. No prerequisite.

LIFE 103 Biology of Organisms: Diversity of animals and plants; their structural and functional characteristics. Prerequisite is LIFE 102.

BZ223 Plant Identification: Relationships and identification of flowering plants. Prerequisite: BZ 120 or LIFE 103.

BZ220 Introduction to Evolution: Fundamental concepts in evolutionary biology. Prerequisite: BZ 110 & BZ 111, or BZ 120, or LIFE 103.

BZ300 Animal Behavior: Principles of ethology, behaviors of nonhuman animals emphasizing their adaptive significance and phylogenetic relationships. Prerequisite: BZ 110 & BZ 111 or LIFE 103.

BZ479 Biology and Behavior of Dogs: Interactions of physiology, neurobiology, and genetics on behavior of domestic dogs, and how evolution and domestication influence behavioral traits. Prerequisite: BZ 110 or LIFE 103.

LIFE 320 Ecology: Interrelationships among organisms and their environments using conceptual models and quantitative approaches. Prerequisite: BZ 110 or BZ 120 or LIFE 102; MATH 155 or MATH 160.

BZ310 Cell Biology: Structure and function of cells emphasizing molecular mechanisms. Communication, metabolism, motility, genetics, growth, reproduction. Prerequisite: BZ 110 or BZ 120 or LIFE 103; CHEM 245 with a C or better or CHEM 345 with a C or better.

BZ311 Developmental Biology: Developmental aspects of growth and differentiation stressed in higher plants and animals. Prerequisite: BZ 310.

BZ350 Molecular and General Genetics. Mendelian, molecular, and population genetics emphasizing the molecular basis of genetics. Prerequisite: BZ 110 or BZ 120 or LIFE 102; STAT 201 or concurrent registration or STAT 301 or concurrent registration or STAT 307 or concurrent registration.

Students are highly encouraged to check the Catalog (www.catalog.colostate.edu) for possible overlap between courses which might result in a course being considered duplicate and credit not being applied toward degree completion. (e.g. credit not allowed for BZ101 if already taken BZ110 or LIFE102 or LIFE103). It is your responsibility to ensure prior to registration that you are not taking an unacceptable combination of courses.

**See Summer 2015 Class Schedule Search for more courses
offered that count within the Biology or Zoology major.**

21st Annual Front Range Student Ecology Symposium



CSU hosted the 21st Annual Front Range Student Ecology Symposium on February 24th and 25th. Several Biology graduate students served on the planning committee for the event, and Biology was the most well-represented major in undergraduate presentations! Read on to learn more about the event from the perspectives of Whitney Beck, CSU Biology grad student, and Adri Tompros, CSU undergrad with a major in Biology. Don't be disappointed if you missed FRSES this year, because this student-run symposium occurs every spring semester.

For many students, the concept of “research” might sound intimidating or ambiguous. Last week, the 2015 Front Range Student Ecology Symposium (FRSES) provided an opportunity for undergraduates and graduates alike to present their research in a more casual setting. Nearly 100 students from CSU and nearby schools presented their proposed or ongoing research, including 26 undergraduates. This event was a great chance to view posters and attend talks on ecological topics like global climate change, fish and wildlife, microbial ecosystems, evolutionary biology, conservation, and much more. In addition to student presentations, there were also networking opportunities, a photo contest, bluegrass music, and a catered reception!



Panel for Undergraduate Students

One addition to this year's line-up was a professional development panel for undergraduate students. Several graduate students shared their experiences and answered questions related to internships, research, careers, and getting into graduate school. The FRSES planning team also distributed handouts with information about undergraduate volunteer research opportunities, compiled from ecological labs across campus. If you missed the panel but are interested in getting research experience and mentorship, please contact Whitney Beck at whitney.beck@colostate.edu for more information!

Here's how Biology Sophomore Adri Tompros described FRSES and the undergraduate panel:

"After having attended the Undergraduate Professional Development Panel at the FRSES, I feel both far more prepared and excited to reach my future professional goals within a field of study I love. The panelists were a wealth of knowledge due to their extremely accomplished but also diverse career paths. Many topics were covered including graduate school, potential careers, undergraduate opportunities and much more. My worries about the daunting task of preparing and applying to graduate school were quelled due to the detailed, insightful advice of the panelists. I would encourage all undergraduate students to highly consider attending the Undergraduate Professional Development Panel and FRSES in general. I received a far greater sense of comfort, preparation, and excitement in respect to my future, which I believe that all undergraduate students would immensely benefit from."

NEW STUDENT CLUBS

Animal Welfare Science Club

Several students from the College of Agricultural Sciences Animal Welfare Judging Team are starting an animal welfare club to give students from all backgrounds a chance to get together and talk about animal welfare. This is a great club for both Biology and Zoology majors who are interested in animal welfare and local organizations that care for animals.



UPCOMING MARCH ANIMAL WELFARE LECTURES

If you're interested in attending any of these events, please email csu.animal.welfare.club@gmail.com to RSVP and get more information.

March 2nd, 6:00PM, Animal Sciences Room 224

Wild Animal Sanctuary: a sanctuary for abused, abandoned, and confiscated wild-life

March 9th, 6:00PM, Location TBA

Mark Dessing: Animal Behaviorist, custom design consultant for Grandin Livestock Handling Systems, Inc.

Field Ornithologists Club

CSU Field Ornithologists focuses on sharing a passion for birding and encourages understanding of avian life history, ecology, and conservation issues. The organization gathers a diverse group of friendly people on birding trips twice a month and hosts monthly meetings with speakers covering a range of topics regarding current research and developments in Ornithology and Avian Ecology.

Email csuornithology@gmail.com and like "Field Ornithologists of Colorado State University" for updates and information about events, including information about a variety of summer jobs!

UPCOMING MARCH ORNITHOLOGY EVENTS

If you're interested in attending any of these events, please email csuornithology@gmail.com to RSVP and get more information.

Saturday, March 14th, 3:00PM-12:00AM

Cameron Pass expedition for Boreal Owls.

Sunday, March 29th, 7:30AM-12:00PM

Birding Trip to North Shields Pond. Meet in the Forestry Lot.

Monday, March 30th, 5:00PM

CSUFO Meeting with Rocky Mountain Bird Observatory biologist, Jenny Berven, describing her monitoring work on Northern Goshawks. Meeting in Engineering E103. Pizza provided.



Interested in summer field school in Channel Islands National Park?

Check out Santa Rosa Island

Environmental Science Field School

May 26 – June 23

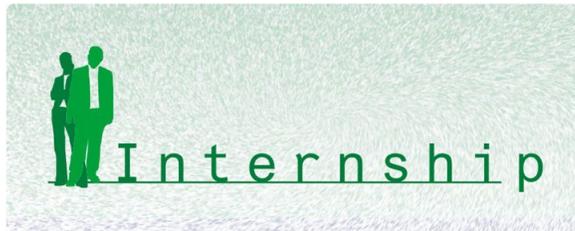
Spend three weeks at the Santa Rosa Island Research Station this summer obtaining field-oriented environmental training and learning about the California Channel Islands. You might be eligible to earn credit while participating in the start-to-finish process of field science. At the end of the field school, you will have the ability to evaluate natural and cultural resource management strategies, and to design and implement your own.



For additional information please email:

Cause Hanna, PhD at cause.hanna@csuci.edu

Santa Rosa Island Research Station Manager



WATER QUALITY LAB INTERNSHIP

The City of Loveland Water Quality Lab has an internship

available this spring, involving higher level work on water, wastewater and source water projects and programs within the WQ Lab.

Responsibilities include:

- Performing standard and special and/or advanced bacteriological, physical, wet chemistry
- Performing specific and routine analysis of various stages of water/wastewater treatment processes and water quality parameters that can include but are not limited to: *biochemical oxygen demand, algal enumeration and identification, numerous bacterial tests and enumeration, alkalinity, pH, ultraviolet testing, oxygen Uptake Rates (OUR and SOURs), conductivity and numerous other chemical and metal parameters.*
- Conducting tests and analysis per the latest approved EPA and / or Standard Methods to assure quality data acquisition
- Assisting in preparing written reports and spreadsheets pertaining to the results of laboratory testing
- Sampling various sources for a multitude of water quality parameters in normal or emergency situations and poor weather conditions

For a full job description and more information, contact Ruth Hecker at ruth.hecker@cityofloveland.org or 970-962-2575.

Fun fact: A CSU Biology alumnus currently works in the WQ Lab at the City of Loveland!



Wildtrax Explorations offers conservation internship and research opportunities in Botswana, South Africa and Tanzania

May 22– July 21

Wildtrax Explorations (WE) creates opportunities for people to journey with the purpose of building personal connections with natural and human resources through education and application. The goal of WE is to offer collegiate students and faculty the opportunity to learn about international wildlife, ecology and management through involvement in projects regions around the world. Students who complete a Wildtrax experience will be equipped with a toolkit that enables them to create their own research or join existing conservation initiatives. We want to produce active and innovative individuals who go on to have successful contributions to wildlife conservation.



For an application or additional information, contact Dhaval Vyas or Jordana Meyer at info@wildtraxexplorations.com or visit www.wildtraxexplorations.com

REMEMBER! If you have earned at least 60 credits (junior class standing), and have at least a 2.5 cumulative GPA and a 3.0 GPA within the major, you can apply to receive credit for independent study, internships, or research! Ask your advisor how.





WILDLANDS RESTORATION VOLUNTEERS

Healing the land... building community.

Wildlands Restoration is seeking to fill three positions (2 full-time seasonal positions and 1 part-time seasonal position), based in Fort Collins or Boulder. They are looking for individuals with:

- ◇ Background in botany, ecology, soils, natural resource management, or related field
- ◇ Experience with ecological restoration projects, including river restoration, post-fire restoration, fuels reduction, erosion control, or road obliteration
- ◇ Experience planning and leading large events
- ◇ A proven track record of leading a team to complete projects that affect large groups
- ◇ Experience with volunteer recruitment and outreach
- ◇ Bachelor's or Master's Degree in a relevant discipline with preference for the natural resource field

Visit www.wlrv.org for more information.

Volunteer/Adventure Travel to South Africa & New Zealand - Summer 2015

Are you excited about the opportunity to travel overseas and volunteer with a purpose during summer 2015? Graduate students in the Dept. of Biology have been working with International Student Volunteers (ISV) to set up community projects and educational adventure tours to **New Zealand and South Africa.**

ISV is a nonprofit organization with the highest rated volunteer and adventure travel program in the world. **These volunteer/adventure trips will begin on May 15, 2015, but space is limited to only 12 participants per trip, so contact David Markman or Whitney Beck soon.** The volunteer projects last for two weeks and focus on helping local people and the environment/endangered species, and then you can stay for a fantastic adventure tour that lasts an additional two weeks. No credit can be earned for these trips and adventures. The adventure tours include:

- Wildlife safaris
- Scuba diving with dolphins & whales
- Cheetah & elephant sanctuaries
- White water rafting & kayaking through caves
- Sky diving & bungee jumping
- Unique cultural experiences and much more!

For more information, visit
www.isvolunteers.org or email
ISV.CSU@gmail.com.

