



Department of
Biology



Fall 2014 Important Dates

October

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

27 - Spring 2016 registration begins. Check Ram-Web for your designated date and time.

November

23-27 - Fall recess begins; no classes this week.

26-27 - Thanksgiving; All CSU Offices are closed.

December

11- Last day to process a University Withdrawal

14-18 - Final Exams

18-19 - Commencement Ceremonies.

23 – Fall grades available on RamWeb

23-25- Winter holiday; University Closed

IN THIS MONTH'S NEWSLETTER:

Page 2... **New Biology Building Groundbreaking!**

Page 3... **Student Spotlight - Shark Research in the Caribbean**

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Page 7... **Summer Field Opportunity in Environmental Biology**

Page 8... **Mindfully Managing Stress**

Registration for spring 2016

Seniors begin October 27th

Juniors begin October 30th

Sophomores begin November 6th

Freshmen begin November 13th

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

If you are not able to speak with an ASC prior to course registration please do your best and come talk to us after you register.

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

You can also come to walk-in hours:

Tuesdays: 12:30-3pm, Wednesdays: 10am-12:30pm

and Thursdays: 1:30-4pm

See page 3 for some common registration errors, what they mean and how to fix them.

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/>

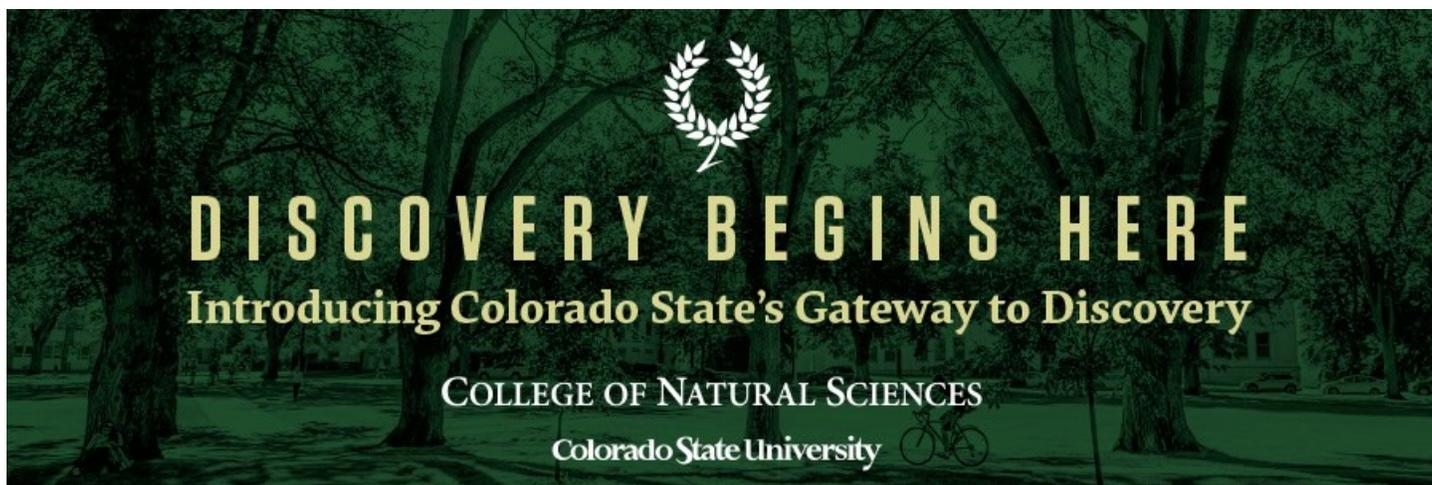


ACADEMIC SUPPORT CENTER ON FACEBOOK!

See announcements about advising, policy changes, and registration.

Job, research, and internship opportunities, and all things Biology!

Like us on Facebook by searching "Colorado State Biology Academic Support Center"



CHEMISTRY RESEARCH AND BIOLOGY BUILDINGS

Dr. Janice Nerger, dean of the College of Natural Sciences, invites you to attend the groundbreaking ceremony for the new Biology Building and Chemistry Research Building.

Thursday, Oct. 15 | 1:30 p.m.
Remarks at 2 p.m. by President Tony Frank

Registration is not required for this event.

Please contact the Office of CSU Events at (970) 491-4601, if you have any questions.

The groundbreaking event will be on the main campus, north of the Environmental Health Building and west of the intersection of Lake Street and East Drive.



BIOLOGY STUDENT LISA WICKMAN'S "SHARK WEEK" RESEARCH EXPERIENCE



Lisa and a Caribbean Reef shark that was caught and tagged.

How did you come to be a part of this research?

I studied abroad during Fall Semester 2013 on South Caicos through a field research based organization called the School for Field Studies. While I was there, I was able to help Dr. Aaron Henderson with his shark research as my directed research project. Dr. Henderson invited me back this August for "Shark Week" to help him with two weeks of intensive field research.

Did this experience provide preparation for your future career?

Yes! This experience has definitely inspired me to pursue the career that I want, and it has also given me really unique insight into what it means to study sharks and what kinds of things I will need to consider in my future research. I feel like I have developed numerous skills and also grown a lot personally in terms of perseverance, critical thinking, and flexibility.



The first great hammerhead shark that was ever caught and tagged in the area.

Is there anything specific you would add for students seeking a research experience abroad?

There are definitely lots of opportunities out there, so just find a project that intrigues you and get in touch with the lab or researchers who are doing that research. You can literally Google it and email the lab. There are also several programs that have research built into them, so go to the Education Abroad Office or talk to your advisors to look into programs that are designed for students in the sciences.

Where were you and on what was the research focused?

I was on a small island in the Caribbean called South Caicos where fishing is the primary industry. The research I participated in was conducted by Dr. Aaron Henderson and is focused on gathering data on shark populations. Specifically, he wants to make a population estimate of the local shark populations and understand how sharks are moving; are they moving between subpopulations or if they are staying around one area. Species he studies include Great Hammerheads, Tiger, Nurse, Caribbean Reef, Bonnethead, Lemon, and Blacktip Reef Sharks.

What was your role, specifically?

My role was to assist with data collection and database entry. I would assist in setting and retrieving drumlines (baited hooks to catch large sharks), BRUVs (Baited Remote Underwater Video), and gillnets (nets in shallow water to catch juvenile sharks). Once we had caught a shark, I assisted in tagging each shark with a microchip and a visible tag on the dorsal fin, obtaining a tissue sample, weighing, and measuring the length of each shark. I also analyzed the underwater videos to identify species of elasmobranchs captured on video.



Removing a juvenile lemon shark from a gillnet.



Obtaining a tissue sample from a lemon shark

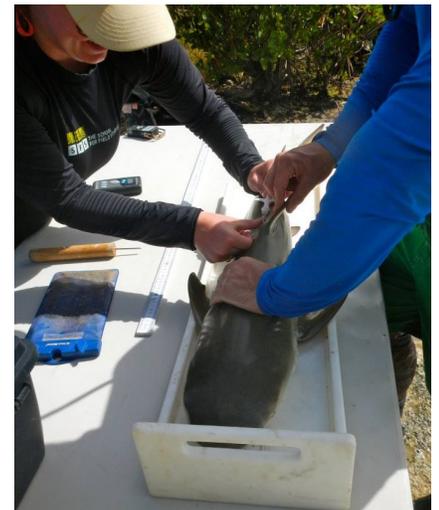
What was the most rewarding part of this this experience? What was the most challenging?

The most rewarding part of this experience was building a relationship with Dr. Henderson; he is an incredible mentor and has inspired me to pursue a PhD in Marine Biology, which is something that I had never really thought possible of myself. His encouragement and teaching has helped me develop so many skills and a determination to never give up on my goals. I also got to tag a Great Hammerhead shark, which was an incredibly exciting experience.

The most challenging part was probably being constantly exhausted. We were in the field for at least 12 hours a day and we would often not return to the research station until about 11pm after sharking all afternoon and evening. The sun really sucks the energy out of you too, so by the end of a day it was all I could do to step off the boat and fall into bed.

What advice do you have for students who are considering going abroad as part of their CSU experience?

DO IT. Going abroad will change your life, the way that you see yourself, and how you see the world. It has been the most rewarding and exciting part of my college experience; and no matter where you go, or what you do or study, it can be an incredibly valuable experience. I would also tell students to invest in relationships with the people you meet, because you never know what opportunities those relationships will lead you to.



Microchipping a juvenile lemon shark

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
Class level	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.
Multiple Components Required	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.
Major Restriction	You do not have the right major for a class.	Some classes are restricted just to students in that major (Business/Art are examples); other classes 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.
Prerequisite	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.
Dept. or Instructor approval	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.
Stop enrollment	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.

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 two appointments this fall with an Academic Support Coordinator to discuss your status and get your advising code.

October 19th 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 19th from 9-11am and 1-3pm to provide support for students with questions/concerns about withdrawing



Study Marine Biology in Baja Sur, Mexico

May 16th – June 3rd 2016

Inaugural course (BZ482) - More information: <http://bit.ly/1VnG3Cr>

Yes, those really are rays flying out of the water

PREREQUISITE: Marine Biology - BZ 415

Spring 2016: T/R 2-3:15pm

Due to high demand, BZ 415 capacity has been increased to 50 students

Prerequisites for BZ 415: BZ 214 and BC 351

HOWEVER

Any juniors or seniors interested in enrolling in BZ 415, and who have completed an entry-level ecology course, are encouraged to contact

Shane Kanatous (shane.kanatous@colostate.edu) or

Graham Peers (graham.peers@colostate.edu)

to request a prerequisite override

Job Opportunity: Digital Image Technician

JOB DESCRIPTION:

Participate in projects that support the expansion of a web-based interface to a relational database of digital images for pest, weed, and disease detection and their associated scientific and taxonomic data. USDA-APHIS-PPQ Fort Collins Lab.

POSITION INCLUDES THE FOLLOWING TASKS:

- Obtain and upload digital images
- Obtain, interpret, and enter scientific and taxonomic information associated with digital images
- Perform other work as assigned

REQUIREMENTS:

- Enrolled at least half-time at CSU
- Able to work during laboratory operating hours
- Pass CSU and USDA PPQ background checks

QUALIFICATIONS:

- Perform repetitious data entry error free
- Working knowledge of Adobe Photoshop preferred
- Working knowledge of Microsoft Office Suite
- Experience learning new software packages
- Excellent communication skills
- Biological background - preferably with training and/or experience in taxonomy

START DATE: November 1st or until filled

HOURS: 15 hours/week during fall and spring semester and 35-40 hours during summer - schedule is flexible

RATE: \$15 per hour

TO APPLY:

Submit the following documents via email to deena.s.walters@aphis.usda.gov

- 1) Cover letter explaining qualifications
- 2) Resume with full contact information
- 3) College transcripts (unofficial transcripts acceptable)
- 4) Complete contact information for three references, including permission to contact references

POSITION INFORMATION: Dr. Deena Walters;
deena.s.walters@aphis.usda.gov

ATTENTION PRE-HEALTH STUDENTS

Dr. F. Scott Kennedy, Dean of Admission at LSU School of Medicine, will be on campus this month conducting two workshops on the overlooked opportunities for professional school applicants.

Wednesday, 10/14, 5:30-6:30pm:

"Gloves Off" - Admission Dean Tells All

- Mock interview for professional school
- No easy questions allowed

Location: Clark A 102



Thursday, 10/15, 9:30-11am:

The Hidden Power of your Resume-Unleash It

- What your friends and advisors can't tell you

Location: Anatomy/Zoology W 106

You must RSVP by emailing a 1 page resume to erin.bisenius@colostate.edu by 11:59pm on Sunday, 10/11

- Submit both Word docx and PDF formats
- Resumes should incorporate an application photo



Workshops are relevant for undergraduate and graduate students who are interested in professional school; topics are relevant to students interested in professional school of all stripes. Dr. Kennedy is offering an insider's perspective on often-overlooked opportunities for applicants to shine during the application process.

Field Biology Program at the University of Notre Dame Environmental Research Center

The University of Notre Dame Environmental Research Center invites undergraduate students (sophomore or higher) to apply for their summer research programs in environmental biology.

These programs focus on field-oriented studies and research, and provide opportunities to conduct independent research at Notre Dame's nationally recognized facilities in the Michigan Upper Peninsula (UNDERC-East) and an intermountain valley in Montana (UNDERC-West).

UNDERC-East (summer, 2015)

Spend the summer studying northwoods ecology and conducting your own research in Michigan's Upper Peninsula

- 8,000 acres of lakes, streams, wetlands, and forests that are home to abundant wildlife
- Course modules include: vertebrate/invertebrate ecology, aquatic ecology, and forest ecology
- Field research exercises
- Group research projects designed by the class
- Independent research projects designed and conducted by each individual student under direction of faculty or graduate students
- **For further information and application, visit <http://underc.nd.edu>**

UNDERC - West (summer, 2016)

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

- Prerequisite - completion of UNDERC-East
- More than a million acres on the National Bison Range and Flathead Reservation that includes grasslands, montane forests, streams, and lakes
- Course modules include wildlife ecology, grassland ecology, montane ecology, and Native American ecology
- Independent research project in collaboration with faculty advisor (more advanced given the skills learned at UNDERC-East)

Application deadline is Friday, November 6th, 2015 and notification of acceptance will be provided by Friday, December 11th, 2015

Acceptance is based on past academic performance and a statement of purpose

Preference is given to students pursuing a career in environmental sciences

More information can be obtained at the UNDERC website (<http://underc.nd.edu>) or from Dr. Michael Cramer, UNDERC Assistant Director (mrcramer@nd.edu)



FEELING OVERWHELMED?

Mindfully Managing Stress Workshop

Are you feeling overwhelmed? Struggling to get a handle on your stress? Perhaps you are ready to explore the potentially **life-changing** practices of mindfulness. Participate in a 4-part interactive workshop series to learn how mindfulness can help you cope with difficult emotions and lead to a more meaningful and less stressful life. This workshop is for students only.

WHERE: Lower Conference Room
Student Recreation Center

WHEN:

Series 1:	Mondays, 3:15 p.m. - 4:30 p.m. September 28 - October 19
Series 2:	Wednesdays, 3:15p.m.-4:30p.m. October 14 - November 4
Series 3:	Mondays, 11:00 a.m.-12:15 p.m. October 19 - November 9
Series 4:	Tuesdays, 2:30 p.m. - 3:45 p.m. November 3 - December 1

LEADERS: Viviane Ephraimson-Abt, MS.Ed., LPCC
Janelle Patrias, MSW

FREE (unless you no-show)

Pre-registration is required. Space is limited. Call (970) 491-6053.

