The College of Natural Sciences Newsletter is designed to serve CNS students. It is delivered online every Sunday.

Dean Kopp’s weekly email includes a link to access the newsletter, as well.

Items in **BLUE** are new;
Items in **RED** are last chance.

If you would like to submit news to CNS Newsletter, send the information to cnsnewsletter@austin.utexas.edu. Include a contact person phone number and email, date or deadline, write in complete sentences, text must be fewer than 150 words. Submit by 11:59pm Friday to be included in that week’s newsletter.

Edited by: Nicole Kruijs

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**Academic Announcements**

1. **One Time Exception drop and withdrawal period**
2. **Austin Science Forum**
3. **CNS January Externship Program**
4. **UTeach hiring Spring interns**
5. **Fall Commencement**
6. **Register for 2014 Spring University Extension Courses**
7. **Spring 2014 Pre-Graudate School Internship**

**Scholarships**

1. **Study Abroad Planning Scholarship**
2. **Sign up for scholarship list serv**

**Internships and Employment**

1. **US Department of Homeland Security STEM internships**
2. **Archer Fellowship Program**

**Research and Volunteering**

1. **MURF Caltech undergraduate research fellowship**
2. **Sign up to judge the Austin Regional Science Fair for CNS**

**Organization Announcements**

1. **Kappa Rho Presents: Leading Women in Medicine Talk**
2. **Student Professor Lunch hosted by Natural Sciences Council**
3. **Summer ORISE Fellowships at CDC**
4. **Be a Destination Imagination Judge**
5. **Amgen Scholars Caltech Summer Research Program**
Academic Announcements

1. One Time Exception
   Drop/Withdraw
   December 6th deadline

   Undergraduate students who may not have urgent,
   substantiated, nonacademic reasons will be allowed to drop a
   single class or withdraw from the University after the deadline to
   drop or withdraw for academic reasons under the provisions of
   the One-Time-Exception (OTE).
   The OTE may be invoked only once during the student’s entire
   undergraduate career regardless of college the student was
   enrolled in at the time the exception was allowed. The OTE
   and the former CNS One-time drop are considered to be
   separate drops. Come to WCH 1.106 if you wish to find out
   more.

2. Austin Science Forum
   Tuesday, December 3; 5:45-
   7:30pm; ATT Conference Center

   "Patient Specific Computer
   Modeling and the Predictive
   Paradigm in Medicine" with Dr. Thomas J.R.
   Hughes
   RSVP: http://bit.ly/1caNJNF
   LEAD ORGANIZATION: Texas
   Advanced Computing Center
   (TACC)
   http://www.facebook.com/tacc.utexas
   WEBSITE: http://www.austinfor-
   um.org

   Computer simulation has
   revolutionized engineering and
   science and is
   creating a new era in the
   diagnosis and treatment of
   disease. Predictive
   medicine is an emerging field
   that performs interventions
   virtually, with
   the fidelity of invasive
   procedures, but without their
   trauma or risks.

   Medicine and engineering are
   problem-solving disciplines, but
   they use
   contrasting paradigms: medicine
   is based on diagnosis while
   engineering is
   based on prediction. The
   predictive paradigm in medicine
   is based on
   engineering design, analysis and
   optimization methodologies,
   computer
   modeling and simulation,
   patient-specific models, and
   predicted outcomes.
   In this talk, Dr. Thomas Hughes
   will
   illustrate the ideas with some
   examples and provide a glimpse
   of future
   possibilities.

3. Fall 2013 Commencement
   Sunday, December 8th; 2:30pm;
   Erwin Center

   The College holds
   commencement ceremonies in
   fall and spring for its bachelor's
   graduates. Summer graduates
   may participate in the preceding
   spring or following fall ceremony
   by completing a Walk
   Application. The University holds
   a campus-wide ceremony each
   spring.
   http://cns.utexas.edu/students/di-
   grees-majors-
   advising/graduation/ceremony

4. CNS January Externship
   Program
   This January, employers around
   Texas are opening their doors to
   UT College of Natural Sciences
   students for a one-day company
   visit called the Externship
   Program. This is an excellent
   opportunity for students to visit
   an employer to see first-hand
   what professionals in their field
   of study do on a daily basis.

   There are over 30 companies in
   participation this year. Please
   note that company availability
   varies by major.

   Follow these easy steps to view
   and register for the Externship
   Program today:

   Log into ScienceWorks (Science
   Works can also be accessed
   within the Career Design Center
   homepage: http://cns.utexas.edu/career-design-center)
   Click on "Career Fairs & Events" from the menu at the top of the
   page
   Under "Category" select
   "Externship" and click "Search" to see those opportunities
   available to you
   Carefully review the date, time,
   and location of the visit and, if
   you are able to attend, click
   "Register for Event"

5. UTeach Now Hiring Interns
   for Spring 2014
   Make an impact. Become an after
   school club coach. Open to all
   majors. Apply now at the link
   below. The UTeach Outreach
   program serves local public
   schools by sending UT student
   volunteer teachers into
   classrooms to provide in-depth,
   hands-on science, technology,
   engineering and mathematics
   lessons to directly impact over
   2,400 elementary and middle
   school students.
   $13 per hour wage
   URL: http://tinyurl.com/UT
   eachApp

6. 2014 Spring University
   Extension Courses
   There is no need to wait to
   register for an evening classroom
   or online cohort course with
   University Extension (UEX).
   UEX's Spring 2014 courses are
   posted and open for registration,
   now.
   UEX grades are provided on an
   official university transcript and
Scholarships
1. Study Abroad Planning Scholarship
   Deadline: December 1st
   Freshmen and sophomores can apply for the chance to win a $2,000-$3,000 Planning Scholarship to study abroad between fall 2014 and summer 2016. Select your program after you win the award. Awards are reserved for first-generation college students, UGS majors, Presidential Achievement Scholars or students with a 2.0-2.5 GPA. Deadline to apply is Sunday, Dec. 1. http://utdirect.utexas.edu/student/abroad/globalassist.WBX

2. Sign up for the CNS scholarship list serv
   CNS undergraduates interested in receiving scholarship information from the CNS Scholarship Coordinator can sign up for the following list serv: cns-scholarships@utilists.utexas.edu. This list serv is used to make announcements regarding undergraduate scholarship opportunities both within and outside of UT, upcoming deadlines, financial aid information, etc.

Internships and Employment
3. US Department of Homeland Security STEM Internships
   Applications due January 6th
   The U.S. Department of Homeland Security (DHS) sponsors a 10-week summer internship program for students majoring in homeland security related science, technology, engineering and mathematics (HS-STEM) Disciplines. The program provides students with quality research experiences at federal research facilities located across the country and allows students the opportunity to establish connections with DHS professionals. It is open to undergraduate students in a broad spectrum of HS-STEM Disciplines and DHS mission-relevant Research Areas. The ultimate goal of the program is to engage a diverse, educated and skilled pool of scientists and engineers in HS-STEM areas and to promote long-term relationships between students, researchers, DHS and research facilities to enhance the HS-STEM workforce. Find out more at: http://www.orau.gov/dhseducation/internships/

4. Archer Fellowship Program
   Interested in public policy and public service? Want to spend a semester living, interning, and taking in-residence classes in Washington, D.C.?
   If the answer is yes, the Archer Fellowship Program may be for you! Students of all majors, political beliefs, and policy interests are welcome to apply. Come learn about this exciting program at an information session; view the schedule at http://www.utexas.edu/ugs/archer/info-sessions.

Research and Volunteering
1. MURF Caltech undergrad research fellowship
   Online applications are due January 8, 2014.

   Next summer (2014), the business school will offer their Business Foundations Summer Institute as “The Business of Healthcare”. The core business courses: Accounting, Finance, Business Law, Management, and Entrepreneurship will feature examples/cases from the context of healthcare and the faculty leading these courses have job experience/special knowledge about healthcare. To apply and find more information, http://www.mccombs.utexas.edu/Business-Foundations/Summer-Institute.aspx

7. Spring 2014 Pre-Graduate Internship
   Are you thinking about whether graduate school is in your future? Are you uncertain about what it would be like to be a graduate student and what academic program may be suited best to your interests and career goals?

If your answer to these questions is yes, you may wish to consider undertaking the Intellectual Entrepreneurship (IE) "Pre-Graduate School Internship." This internship is open to students in all UT colleges/schools and departments. You may earn one, two or three hours of academic credit (CMS 164M/264M/364M) by participating in the internship.

In addition, you may read more about this program (including FAQ’s, examples of internship activities and an easy to complete internship contract) on the web:
http://communication.utexas.edu/ie

Institute.aspx/Business about healthcare.

The core business courses: Accounting, Finance, Healthcare. "The Business of Healthcare". The core business courses: Accounting, Finance, Business Law, Management, and Entrepreneurship will feature examples/cases from the context of healthcare and the faculty leading these courses have job experience/special knowledge about healthcare. To apply and find more information, http://www.mccombs.utexas.edu/Business-Foundations/Summer-Institute.aspx
The MURF program aims to increase the participation of underrepresented students (such as African American, Hispanic, and Native American; females who are underrepresented in their discipline; or first-generation college students) in science and engineering Ph.D. or M.D./Ph.D. programs and to make Caltech’s programs more visible to students not traditionally exposed to Caltech.

Eligibility: Students must be current sophomores through non-graduating seniors and must be U.S. citizens or U.S. permanent residents. A minimum GPA of 3.2 is required.

Competitive applicants will have completed sophomore-level courses in desired research field, have demonstrated through academic and/or co-curricular activities a passion for research, and can articulate how their research interests align with Caltech’s research areas. The most competitive applicants will have prior research experience.

Support: MURF students will receive a $6000 award for the ten-week program. An additional $500 housing and travel supplement will be provided.

For more information, visit [www.sfp.caltech.edu/programs/murf](http://www.sfp.caltech.edu/programs/murf).

2. **Austin Regional Science Fair Judges**
Volunteer to be a judge at the Austin Regional Science Fair on Thursday Feb 20 and Saturday February Feb 22nd. To register and find more details, please visit: [http://www.sciencefest.org/volunteer/judgeRegistration.php](http://www.sciencefest.org/volunteer/judgeRegistration.php)

3. **ORISE Fellowships at CDC**
Application due: January 17th

The Centers for Disease Control and Prevention (CDC), National Center for Environmental Health (NCEH), Division of Laboratory Sciences (DLS), is seeking Summer ORISE Fellows to focus on public health issues related to the environment. Candidates will join projects associated with developing and applying new methods to characterize and quantify biochemical markers that are relevant in environmental exposures and chronic diseases. The fellowship carries a stipend of approximately $2,700 per month for full-time undergraduate student fellows and $3,300 for full-time graduate student fellows.

The appointment is through the Oak Ridge Institute for Science and Education. The application is available at: [http://orise.orau.gov/cdc](http://orise.orau.gov/cdc).

To be considered, please send all application materials, including the application, a current resume, official transcript, and two letters of recommendation, to [CDCrpp@orau.org](mailto:CDCrpp@orau.org) by January 17, 2014. Please reference CDC-NCEH-2014-0004 LS in all communications.

4. **Be a Destination Imagination Judge**
Volunteers needed to appraise student presentations!
Thousands of students in Texas participate in a team-based creative problem solving program called Destination Imagination. Teams solve mind-bending, open-ended challenges in the areas of technical, scientific, structure building, fine arts, community service, and improvisational theater. They present their solutions at a Regional Tournament. It is 100% volunteer-led and they need volunteers to help the kids realize their success!
If you have a good sense of humor and are over the age of 18, you can be an appraiser! You would need to attend training on 2/8/14 (8:30 am-12:00pm at Cedar Park Middle School) and attend the Tournament on 2/22/14 (8:00am-5:00pm at Rouse High School, Leander). On tournament day, your appraisal team will observe presentations and provide positive feedback, award points and nominate teams for special awards.
Contact [CAPITALCPSO@gmail.com](mailto:CAPITALCPSO@gmail.com) for registration information.

5. **2014 Caltech Amgen Scholars Program**
Applications due: February 3rd

UC Berkeley is pleased to announce the 2014 Amgen Scholars Summer Research Program in Science and Biotechnology. This national program provides participants with the opportunity to conduct research with a faculty member, communicate their science in poster and oral presentations, receive a stipend, housing, meal plan, and transportation to and from the UC Berkeley campus.

Program dates are June 2 - August 8, 2014 and the application deadline is Monday, February 3, 2014. Berkeley welcomes applications from your students and appreciates if you would forward this information to your colleagues.

For more information about the program, please visit the following sites:
[UC Berkeley Amgen Scholars](http://orise.orau.gov/cdc)
Organization Announcements

1. **Student Professor Luncheon hosted by NSC**
   Friday, December 6th; 1-2pm

   Invite your favorite professor to a luncheon hosted by the Natural Sciences Council! This is a free opportunity for any CNS student to invite a CNS professor to. This luncheon will take place Friday, Dec. 6th, from 1 - 2 PM. For more details, and to print an invitation, go here: tinyurl.com/sfluncheon2013.
   Contact: nsc.sf.chair@gmail.com with questions

2. **Kappa Rho Presents: Leading Women in Medicine Talk**
   Monday, Dec. 2nd, 5:00-6:30pm at UTC 4.102

   Kappa Rho Pre-Medical Honor Society presents talks by three leading female physicians from the Austin area who work in male-dominated fields: Dr. Micaela Aleman, Dr. Jennifer Walden and Dr. Patricia Aronin. Hear about their careers, as well as the experience of being a woman in medicine in the specialties of urology, cosmetic surgery and pediatric neurosurgery. Q&A to follow.
   Contact: Pooja Prabhakar (832) 628-8166