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Civil Engineering Undergraduate Announcements – November 16, 2020

Happy Week 7, everyone!

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ECI 189E Course Descriptions and CRNs

NOTE: On schedule builder it states, “Consent of Instructor”, but as long as you have the prerequisites needed, you can use the CRN listed below to register. Additionally, you can take both, they both can count towards ECI Electives, and they are 4 units each.

Title: **ECI 189E - Structural load calculation and modeling under current and changing climate conditions**

Professor: Michele Barbato

CRN: 44566

Units: 4

Prerequisite(s): ECI 130 C- or better

Format: 3-hour lecture + 1-hour lab

Topics: Structural analysis process and model idealization; Design codes, standards, and guidelines including IBC and ASCE 7; Load paths for vertical and horizontal loads; Load cases and load combinations; Modeling of loads using finite element software; Dead and live loads; Snow loads; Wind loads; Climate change effects on snow and wind loads.

Title: **ECI 189E – Structure and Properties of Civil Engineering Materials**

Professor: Sabbie Miller

CRN: 44567

Units: 4

Prerequisite(s): (Mat 021C C- or better); (CHE 002A C- or better); (ENG 035 C- or better)

Format: 4-hour lecture

Topics: This course provides an introduction to the structure and material properties of common civil engineering materials such as cements, concrete, steel, plastics, and wood. This course covers mechanical properties, such as elastic and plastic response to loading conditions, as well as material properties such as thermal conductivity, diffusivity, and capacity. Additionally, this course covers various deterioration responses for these common civil engineering materials. An introduction to different failure mechanisms and serviceability issues, such as analysis and design theory for brittle failure modes, corrosion, fatigue, and creep, as well as how changes in environmental conditions can influence the durability of materials will be provided.

Announcements from ASUCD

ASUCD Elections

Voting in the ASUCD Fall Election opens on Monday, November 16 at 12 pm and closes on Thursday, November 19 at 12 pm!

How to vote:

Step 1: Visit <https://elections.ucdavis.edu/vote/> and log in to your Kerberos account.

Step 2: Vote on any ballot measures.

Step 3: Rank the Senate candidates from 1 to 15.

Step 4: Hit submit and you're done!

Become a Peer Case Advisor

The Student Advocate's Office of ASUCD focuses on basic needs, and assist and represent students who are involved in disputes with the university.

The Student Advocate's Office is currently accepting applications for Peer Case Advisors. We are searching for students who are interested in volunteering in the office to help assist others in various capacities, such as helping students navigate the Judicial Affairs process, as well as finding off-campus housing. For more information, please see the attached flyer.

AQUIRE Survey

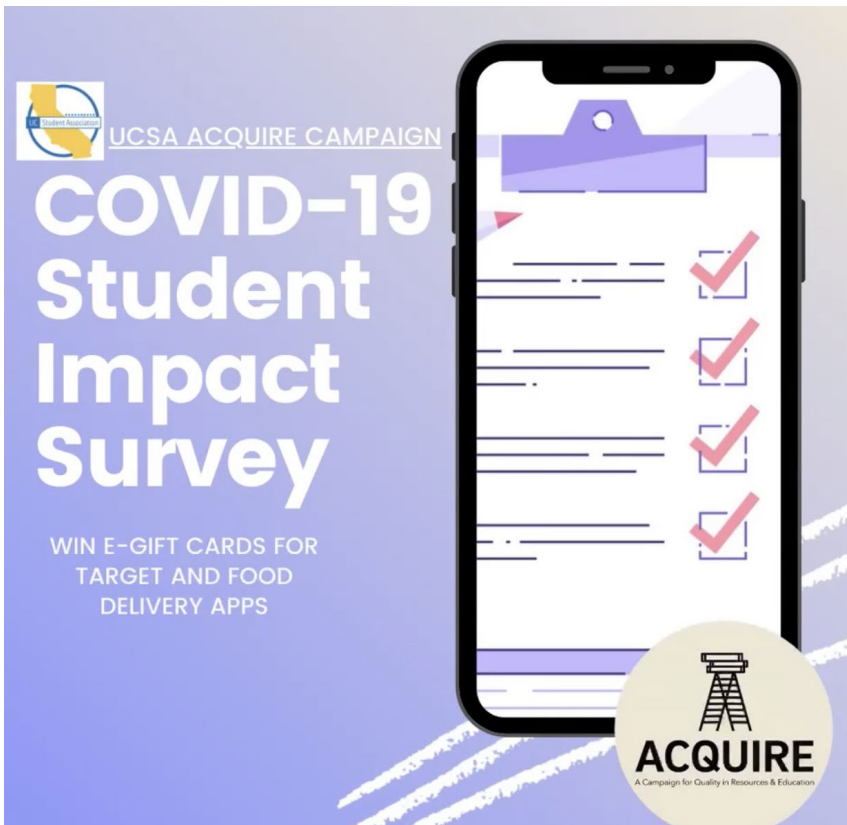
ASUCD's External Affairs Office with the ACQUIRE campaign want to let you know about an important survey that UCSA has created to assess the impact of COVID-19 on student needs and experiences.

ACQUIRE is a campaign aiming for quality investment of resources in education, and the results of this survey will help inform projects to help students. ALL UC students are eligible to

take this survey, but ASUCD is hoping to ensure that UCD student voices represent a large portion of the data so our campus's unique needs can be adequately addressed. There's even a chance to win gift cards! They will be taking responses through December 20th.

Contact: Acquire@ucsa.org

https://docs.google.com/forms/d/1PT90ZJzkvhJWL3TPS9IyWpO6Qspce_RlvJ-4WjdErnE/edit



oSTEM Presents: Out in Grad School

Date: November 19

Time: 6-7pm

Hear from LGBTQIA+ grad students on their post-undergrad experiences and career trajectories!

About this Event

Are you interested in applying to grad school but unsure what graduate student life is really

like? Join us to hear from LGBTQIA+ grad students from UC Davis, UC San Diego, and University of Washington about their post-undergrad experiences and career trajectories! We'll discuss applying to grad school, navigating academia as a queer person, and opportunities after graduate school for both Master's and PhD students. If you are interested please register at the Eventbrite link here: <https://www.eventbrite.com/e/out-in-grad-school-by-ostem-uc-davis-registration-126756838115>

UC Davis PLASMA Startup

PLASMA provides UC Davis undergraduate entrepreneurs with the tools, accountability, and community they need to aggressively grow and master their startup. Each year, ten top-flight teams join the PLASMA cohort, where they are mentored by investors, fellow entrepreneurs, and subject matter experts ahead of scaling their businesses and solving real-world problems. Below are videos of last year's teams:

- Student Videos from last year: <https://startup.ucdavis.edu/plasma-uc-davis>
- Demo Day Recording: <https://ucdavis.box.com/s/8nclzz3t2155lq1li3klxrxg9owf3s94>

WHAT: UC Davis PLASMA Student Startup Accelerator

WHY: If you have a startup (or even an idea!) apply now to get coaching, funding, and team support

WHO: Each team must have one UCD undergrad, but otherwise, all are welcome

WHEN: First round applications due Nov 30; Second round Jan 4

WHERE: Apply here: <https://airtable.com/shrxut2gSMYPd1zWV>

QUESTIONS: Reach out to aaranderson@ucdavis.edu

UCEAP Engineering Study Abroad Opportunities



UCEAP offers over 65 programs worldwide for engineering majors! UCEAP partners with top universities around the world and several of these institutions are consistently ranked among the world's best universities for engineering and science.

Program Spotlights

- [Carlos III University of Madrid, Spain](#) Many of the engineering degrees offered at this young and dynamic university are bilingual or taught completely in English, and upper-division courses have prerequisites similar to those at UC, making your transition to a Spanish university system very straightforward. Carlos III makes it easy to plan your tentative course of study well in advance, providing many syllabi online.
- [Lund University, Sweden](#) A hub of technology, innovation, and entrepreneurship, Lund offers a wide range of courses in English in engineering and computer science, many of which include hands-on research projects. The city of Lund is a blend of storybook charm and a hip, boisterous college scene.
- [National Taiwan University, Taiwan](#) National Taiwan University in Taipei has maintained its standing as the most prestigious College of Engineering in Taiwan as it's on the forefront of technological advancement. A growing number of courses are taught in English each year and the Departments of Civil Engineering and Chemical Engineering consistently offer exceptional courses taught in English.
- [Research in Hong Kong, Hong Kong](#) Take a summer to boost your resume with one of Asia's top research-intensive universities—The Chinese University of Hong Kong (CUHK). Projects vary each year; past offerings have been in the departments of Computer Science and Engineering and Electronic Engineering.
- [Scottish Universities, UK-Scotland](#) All three of UCEAP's Scottish host institutions—the University of Edinburgh, the University of Glasgow, and the University of St. Andrews—have outstanding programs in engineering and computer science. Attend classes with local Scots and take advantage of your weekends to explore this beautiful and storied land.
- [STEM Research in Singapore, Singapore](#) Work full-time on high-level research projects alongside Singapore University of Technology and Design (SUTD) students and under the supervision of SUTD faculty in this 8-week summer program. Outside the lab, explore one of the world's most futuristic cities.

These are only a few of the options available to you. Explore more programs in [engineering](#) and [computer science](#).



Did you know?

You can study abroad and still graduate on-time! UCEAP offers over 50 quarter and semester options for engineers and 15 summer programs ranging from 5-8 weeks. Talk with your academic advisor today to plan the best time to study abroad for you.

Next Steps...

Adventure awaits! View the 'How to Apply' section for any UCEAP program to view upcoming deadlines on your campus and start your journey now.

Scholarship Opportunity – Undergraduate Scholarship Application

Over \$4 million in scholarships is available through the Undergraduate Scholarship Application. The application for 2021-22 is now open and available through January 11, 2021. [Apply today](#) to be considered for over 400 scholarships!

Need help completing the Undergraduate Scholarship Application?

“Sit Down with Scholarships” are weekly Zoom sessions with one of our expert staff members who will be available to go over any questions you have regarding the application. Not sure exactly which questions to ask, but want an inside look on the application process from our eyes? We will also provide tips and best practices when applying.

[Register now](#) and sit down with us any week that works best for you.

Job/Internship Opportunities from the ICC

Full Time/Entry Level Jobs

[#4148786 Staff Engineer](#) - Group Delta Consultants

[#4095107 Staff Engineer](#) - SCS Engineers

[#3400768 Staff Civil Engineer](#) -Cunningham Engineering Corporation

[#3436584 Design Engineer I](#) - Sherwood Design Engineers

Internships/Part-Time Jobs

[#2846671 Civil/Environmental Engineering Intern \(OC Waste & Recycling\)](#)- County of Orange

[#4136584 Environmental Compliance Intern](#)-Ste. Michelle Wine Estates

[#4055550 Agriculture Summer Intern](#) -Trimble, Inc.

[#4005281 Internship \(Design Engineer\)](#) - The Weitz Company

Opportunities Outside of Handshake

[Entry Level Engineer](#) - Eichleay, Inc.

[Engineer New Graduate](#) - Del Monte Foods, Inc.

[Entry Level H&H Engineer](#) - AECOM Company

[UI Engineer Intern \(Management Leadership for Tomorrow\)](#) - LinkedIn

[Summer 2021 Product Management Intern](#) - Hitachi ABB Power Grids

[Engineering Intern](#) – Jabil

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