



Visit us at <http://ps.uci.edu/stuaff/>

# PHYSICAL SCIENCES NEWSLETTER

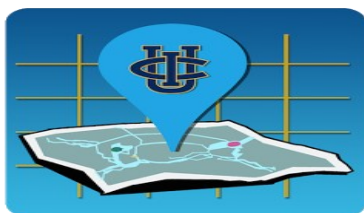
SPRING 2019 EDITION

## In this issue...

- IMPORTANT Spring Quarter Dates
- Minors and New Specializations
- Research Opportunities
- The Cal Teach Program
- Math CEO
- Tutoring
- Clubs
- Peer Academic Advisors
- And more...

## ZOT FINDER APP

Need help finding your way around campus? Download the free Zot Finder App! With it you can search faculty, staff, and buildings, and quickly access a digitized version of the UCI emergency blue book.



Like our Facebook page!

## ANNOUNCEMENTS/ UPCOMING EVENTS



### PHYSICAL SCIENCES ZOTCHAT IS AVAILABLE!

Chat live with a counselor/peer advisor to ask general counseling or advising related questions. For more information, visit <https://ps.uci.edu/stuaff/content/live-chat>

## ADD/DROP POLICIES

**\*ADD/DROP:** The deadline to add or drop courses in the School of Physical Sciences is the end of Week 2 by 5:00 PM. Add/Drops can be made using WebReg.

**\*CHANGE:** The deadline to change grade option or variable units is the end of Week 2 by 5:00PM. Changes can be made using WebReg.

An online petition will be used for Adds, Drops, and Changes after the listed enrollment deadlines have passed. Log into **STUDENT ACCESS** to submit an enrollment exception request.

**\*\*Some departments within the School of Physical Sciences have deadlines earlier than those for the School itself. Please see the comments in the SOC for details:**

## GRADUATING SENIORS

Don't forget to submit those graduation applications! The time to do so is now if you plan on graduating in the spring/summer/fall.

Log in to Student Access today!



## IMPORTANT SPRING QUARTER DATES:

**April 1** - Instruction Begins

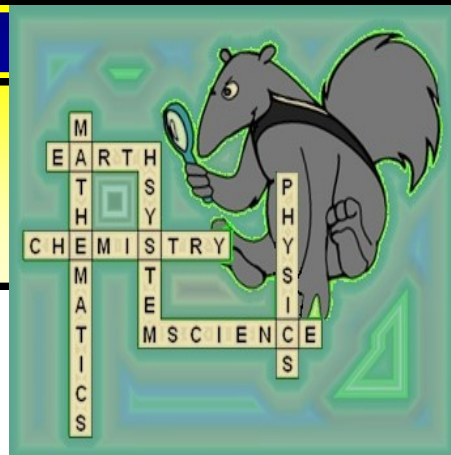
**April 12** - Deadline to Add/Drop courses without Dean's approval using WebReg (by 5 p.m.)

**May 27** - Memorial Day

**June 7** - Instruction Ends

**June 8 - 13** - Final Exams

**June 14 - 17** - Commencement



## PHY SCI MENTORSHIP PROGRAM

Great opportunity to be paired up with an alumni or science professional as a mentor. Gain insights to potential career paths; map-out areas for personal and professional development; and seek council regarding issues of concern



For more information visit: <http://www.physsci.uci.edu/mentor>

The Physical Sciences Undergraduate Mentoring (PSUM) runs annually from Nov-May.

## CAREERS AFTER COLLEGE

<http://ps.uci.edu/stuaff/content/careers>

- **Math** provides a solid foundation for further study in graduate or professional school, including law school or business school. Information about math careers is available at: [AMS Careers](#), [MAA Careers](#), and [AWM Career Resources](#).
- **Physics** majors are analytical thinkers with a basic understanding of natural processes. Even with a Bachelor's degree, physics majors are in high demand in our technological society. To get an idea of industrial opportunities go to: [www.dice.com](http://www.dice.com) and search "physics", [AIP Careers](#), [APS Careers](#).
- **Chemistry** majors are prepared to go on to careers in the chemical sciences as well as in biology, medicine, earth sciences, secondary education, business, and law. More information is available at: [AIC Careers](#), and [ACS Careers](#).
- **ESS** students go on to graduate school programs and careers as research scientists in academic, public, or private institutions. Students are prepared to enter the workforce directly as scientists in a diverse array of fields. ESS career information can be found at: [AGI Careers](#), [AGU Careers](#), and [GSA Careers](#).

## NEW!— MATH MAJOR WITH A CONCENTRATION IN DATA SCIENCE

Data Science integrates mathematical, computational and statistical reasoning to extract knowledge and insights from a variety of data. Data scientists develop mathematical models and theories, computational tools and statistical methods for exploring, analyzing and making predictions from data in context. The interdisciplinary concentration in Data Science offers training in theory and applications of the core pillars of data science: mathematics, statistics, and computer science.

Meeting with the faculty advisor is by appointment. Schedule an appointment using [this link](#).

## UROP—UNDERGRADUATE RESEARCH

- What does UROP stand for? Undergraduate Research Opportunities Program
- UROP encourages and facilitates research and creative activities by undergraduates from all schools and academic disciplines at UCI.
- Research opportunities are available not only from every discipline, interdisciplinary program, and school, but also from many outside agencies, including national laboratories, industrial partners, and other universities.
- UROP offers assistance to students through all aspects of the research process, from proposal writing, to project management, awarding grant money, as well as an opportunity to publish findings in UCI's own undergraduate research journal. Find more information here: <https://www.urop.uci.edu/>



## ANTEATERS MATHEMATICS CLUB (AMC)

The Anteaters Mathematics Club is a student run organization that brings together students interested in mathematics. AMC provides opportunities for students to explore various topics of mathematics outside the classroom, enhance student communication and cooperation, and provide resources to help students prepare for future careers in mathematics. We also have some fun activities such as: talks from professors and graduate students, workshops on careers, graduate schools, and undergrad research as well. Math Club meets every Monday at 5-6PM at Natural Sciences 2, room 1201. You do NOT need to be a major to join AMC! Anyone who is passionate about mathematics is welcome.

Please visit our Facebook page at <https://www.facebook.com/groups/anteater.math.club/>

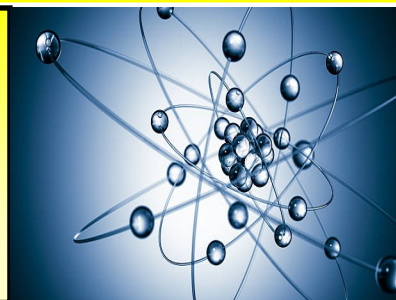
## CAL TEACH CLUB (CTC)

The Cal Teach Club at UCI is affiliated with UCI's Cal Teach Program, which is a 4-year undergraduate program where you can earn your bachelor's degree in Math or Science along with a secondary teaching credential. However, you do not have to be committed to the Cal Teach Program nor be a Math or Science major to be a part of the Cal Teach Club. We invite all individuals who are interested in teaching, tutoring, or learning more about the education field in general. Our mission is to foster a community of future teachers here at UCI, and to offer a chance to network with other future and current educators. We aim to achieve this by bringing in guest speakers such as current/retired teachers, alumni, and other experts in the education field. Club meetings will have snacks, social events, speakers and informative workshops! This is your chance to discover whether or not teaching is for you. To know when and where we will have meetings follow us on Instagram at [ucicalteach](https://www.instagram.com/ucicalteach/) or on Facebook at <https://www.facebook.com/ucicalteach/>.

## WOMEN IN PHYSICS AND ASTRONOMY AT UCI

The Women in Physics & Astronomy (WiPA) group at UC Irvine is a representative body for women at the undergraduate, graduate and postdoctoral levels. We strive to create a community for female physicists that fosters support through a variety of social events and outreach programs. We welcome anyone who is interested in discussing topics related to women in physics and addressing women's issues and interests within the department.

Visit us at our website: <https://clubs.uci.edu/womeninphysics/>



## ALPHA CHI SIGMA

Alpha Chi Sigma is a national professional co-ed fraternity focusing in the chemical sciences. Founded in 1902, there are nearly 100 chapters across the nation. Here at UCI, we are comprised of individuals from various majors such as Biology, Pharmaceutical Science, Chemistry, Chemical Engineering, Earth System Science and Public Health who are bonded by our love for and the common interest in the field of chemical sciences. As a group we strive to create a positive social forum for our members by promoting chemistry through academics, research, service, and assist our members in succeeding in their professional goals.

The Delta Lambda Chapter of AXS will be rushing from 10/8 - 10/11, and all events (excluding Monday at UTC's Cha for Tea) will meet at Rowland Hall at 6pm.

Contact: [ucialphachisigma@gmail.com](mailto:ucialphachisigma@gmail.com)





## MINORITY MATH CLUB

The club's goal is to create a community within the major for students who identify as: an underrepresented minority, first-generation, transfer, non-traditional, adult learner, or anyone looking for a friend with similar experiences. We've been doing this by creating a safe space with lines of communication between students where they feel comfortable enough to ask for advice or help with their difficulties in math.

Feel free to contact us at [agoveagr@uci.edu](mailto:agoveagr@uci.edu).

Our GroupMe is [https://web.groupme.com/join\\_group/47495069/oKiZDw](https://web.groupme.com/join_group/47495069/oKiZDw).

## EARTH SYSTEM SCIENCE CLUB (ESSC)



The Earth System Science Club at UC Irvine aims to prepare ESS, ES, and students interested students in sustainability for careers in the field. We provide a number of workshops and networking opportunities with faculty, alumni, and local industries to assist students in preparation for the workforce. In addition, we serve the local community with ecological volunteering throughout the year. We hope to see you at our next meeting!

Please join our Facebook group for updates on the club and email us anytime at [esscirvine@gmail.com](mailto:esscirvine@gmail.com). Check out our website at <http://ess-club.wix.com/essc>.

Facebook group: <https://www.facebook.com/groups/196761771800/>

## ASTRONOMY CLUB AT UCI

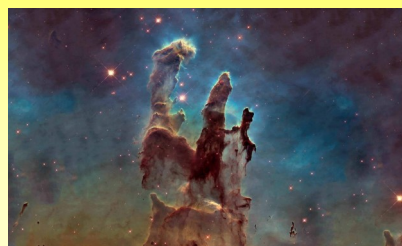
Astronomy Club at UCI is a club dedicated to communicating the wonders of the cosmos. We aim to form a sense of community among our members, and, if possible, among the students at UCI through Astronomy. Astronomy Club works along side the Astronomy Outreach Program, hosting events such as the previous Lunar Eclipse Event with our own telescopes. We also plan trips for Camping, Observatory Trips, and other related Astronomy activities such as stargazing during meetings.

Feel free to contact us at [astroclub@uci.edu](mailto:astroclub@uci.edu).

Facebook Group: The Astronomy Club at UCI

Instagram: @astronomyclubuci

Website: <https://sites.uci.edu/astroclubatuci>



## UCI SOCIETY OF PHYSICS STUDENTS (SPS)

The UCI Society of Physics Students (SPS) strives to create a welcoming environment for all students interested in physics, and to foster their development as young career professionals and scientists. SPS organizes industry networking events, panels with scientists, Physics Department meet-and-greets, and lab tours. SPS also hosts social events like science-fiction movie nights, pizza socials, and game nights. Society of Physics Students weekly meetings are typically on Wednesdays from 5-6pm, in FRH 2107.

Feel free to contact us at [sps@uci.edu](mailto:sps@uci.edu).

Our website link is <https://sites.uci.edu/spsuci/>.



## THE ACTUARIAL SOCIETY

The Actuarial Society serves as the undergraduate actuarial student organization at UC Irvine. We host events throughout the school year to provide social and professional development. This includes hosting actuarial speakers, resume workshops, and technical workshops.

Additionally, we provide exam support and will happily answer any career questions.

Please visit our website at [www.clubs.uci.edu/actuarialsociety](http://www.clubs.uci.edu/actuarialsociety) for further information and resources provided.

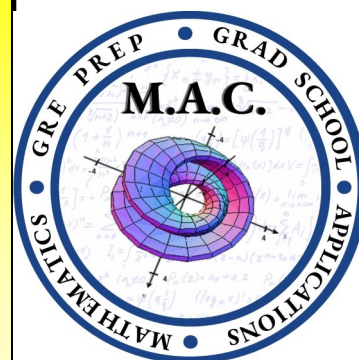
Contact us at [actuarialsociety@uci.edu](mailto:actuarialsociety@uci.edu).



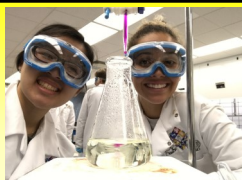
## MATH ANTEATER COMMUNITY

The mission of the Math Anteater Community is to create an environment in which undergraduate students majoring in math can learn to navigate the graduate application process. Over the course of the academic year, members will learn, gain familiarity, and achieve a developed understanding of the different aspects of applying graduate schools, including, but not limited to, the GRE Math Subject Test, components of an excellent personal statement, independent research, and choosing a graduate school that fits one's academic and personal interests. In addition to the club's long-term goals, Math Anteater Community's quarterly goal is to create a close-knit group of proactive undergraduate math majors and encourage sharing mathematical ideas and experiences.

[MathAnteaterCommunity@gmail.com](mailto:MathAnteaterCommunity@gmail.com)



## WOULD YOU LIKE TO PARTICIPATE IN RESEARCH?



Visit the Research page of our office website at

<http://ps.uci.edu/stuaff/opportunities/research>.

Come in and see us for more information in RH 134.

## REMINDER: UPDATE YOUR ADDRESS

Remember, every time you move, you should log on to the Student Access website and update your local and/or permanent address. This way, the Student Affairs Office and other offices on campus can send you important information in the mail.

***Free and Private tutoring is available for  
CHEMISTRY, PHYSICS, and MATHEMATICS!***

***For more information visit our [website](#).***



## UCI MATH CEO

Math CEO is a Community Educational Outreach program run by faculty and students at UCI, aimed at developing problem solving and critical thinking skills through mathematics, inspiring underprivileged kids to work hard and pursue their dream of college career. Join us by:

1. On Mondays, attend a course (as a free, non-credit course or as MATH 192 for 2 units) to learn how to support middle school students learning math
2. Volunteer to do math with middle school students at UCI on Tuesday from 9-10am and/or on Wednesday from 2-4pm.

Sign up at <https://goo.gl/forms/DTK9vhNZgkyb88W03> and become an inspiring mentor!

For more information, email us at [mathceo@math.uci.edu](mailto:mathceo@math.uci.edu).

You can also watch this video for more information: <https://youtu.be/DyBik87GnHU>

Take a look at this news article as well at <https://news.uci.edu/feature/solving-problems/>

## Career Pathways Special Events

UCI's Division of Career Pathways is hosting some special events this quarter that are especially helpful for GRADUATING SENIORS! Here are the dates for some awesome events:



May 28 - Enhancing Your Resume and Job Search Strategies

May 29 - Building Your Network and Interview Techniques

May 30 - Salary Negotiation and Ask a Recruiter Panel

May 31 - Resume Lab

Here is the link to their website for more information on these events: <http://career.uci.edu/students/undergraduate/explore-a-career/special-events/graduating-senior-career-launch-week/>

## MEET THE ACADEMIC COUNSELORS



From left to right:

Don Williams.....[dawillia@uci.edu](mailto:dawillia@uci.edu)

Mike Tawney.....[mtawney@uci.edu](mailto:mtawney@uci.edu)

Jillian LeMaster-Dwyer.....[jlemaste@uci.edu](mailto:jlemaste@uci.edu)

Stefanie Masuda.....[masudas@uci.edu](mailto:masudas@uci.edu)

## MEET THE PEER ACADEMIC ADVISORS

Our office is open on weekdays from 9am-4pm, and we advise walk-in students every day, no appointment needed. Come visit us in 134 Rowland Hall!

Alessandra Flaherty.....[akflaher@uci.edu](mailto:akflaher@uci.edu)

Shelly Meirovitch.....[smeirovi@uci.edu](mailto:smeirovi@uci.edu)

Claire Urata.....[uratac@uci.edu](mailto:uratac@uci.edu)

Emma Wilfong.....[ewilfong@uci.edu](mailto:ewilfong@uci.edu)



**Questions?** Please contact a Peer Academic Advisor or an Academic Counselor at 949-824-6507, at [pssazot@uci.edu](mailto:pssazot@uci.edu), or come into our office to speak with us. We are located in Rowland Hall 134 and our walk-in hours are Mon-Fri 9:00 am—4:00 pm.



*The School of Physical Sciences presents*

## Anteater Spotlight

### Zacharía Rana

Meet Zach Rana, a 4<sup>th</sup> year Chemistry major from San Diego, CA. He was originally a Physics major, but decided to switch to Chemistry during his 2<sup>nd</sup> year at UCI. His initial plan was to pursue a Ph.D. in Astrophysics, but later changed his mind when he saw how little human interaction there is in this field of research. Because he wants to work with others on a day to day basis, he decided that medicine was a better career path for him. Zach absolutely loved the first class he took and decided that chemistry was something he could study for four years. So, he fulfilled all the change of major requirements, successfully changing his major to Chemistry the summer before his 2nd year.

Zach is also involved in many different activities, both on and off campus, contributing to the community around him. He is the president of the Baha'i club, a club for his religion (the Baha'i faith) that focuses on doing community service projects. He was also briefly involved in a pre-med club called Flying Samaritans, and went on a trip to Mexico to volunteer at a free clinic. Zach has also been involved in biochemistry research with Dr. Chen at the UCI Medical School for a year now, doing cancer research on BRCA1 binding proteins that play a role in DNA damage repair. He says that learning more about the functions of these binding proteins will help us create better screenings to predict the likelihood of developing breast cancer later in life. Zach has also worked as a Physical Sciences Peer Academic Advisor at UCI and as a children's class teacher, and is currently taking on the roles of Resident Advisor at UCI and Junior Youth Administrator, where he helps junior youth (ages 11 to 14) develop their powers of expression, identify constructive and destructive social forces acting upon them, and conduct local service projects. In addition to these accomplishments, Zach enjoys playing the piano and drums, singing, weightlifting, and making YouTube videos (ZR Fitness) in his free time.

Here is some advice to new students from Zach on how to get involved and be successful:

"Start small and stay consistent. You don't need to be president of three clubs and have an internship and do research your first year. Start meeting new people and building connections, and you'll be surprised where that leads you."

"Plan out your whole quarter on a planner or an internet calendar and put in all your important assignments and exams. I use this backbone of the most important things to guide what times I can add in other activities such as research, volunteering, going to the gym, etc. My second piece of advice is to learn what you need to do to be successful academically, because it's different for everyone. To do this, I asked many people who were successful academically what their study strategies were and tried them out my first year. I picked out the ones that worked best for me and developed my own study strategy."

Congratulations Zach! We know that you will contribute so much to the scientific community and accomplish any goals you set for yourself!



**Zacharia Rana**  
*B.S. Chemistry*

