

## DEPARTMENTS

Biochemistry  
 Botany and Plant Sciences  
 Chemistry  
 Earth and Planetary Sciences  
 Entomology  
 Environmental Sciences  
 Evolution, Ecology, and Organismal Biology  
 Mathematics  
 Microbiology and Plant Pathology  
 Molecular, Cell, and Systems Biology  
 Nematology  
 Physics and Astronomy  
 Statistics

## UNDERGRADUATE MAJORS

### Life Sciences Majors

Biochemistry  
 Biology  
 Cell, Molecular, and Developmental Biology  
 Entomology  
 Microbiology  
 Neuroscience  
 Plant Biology

### Mathematical Sciences Majors

Data Science  
 Mathematics  
 Mathematics for Teachers of Secondary School  
 Statistics

### Physical Sciences Majors

Chemistry  
 Earth Sciences  
 Environmental Sciences  
 Geology  
 Geophysics  
 Physics

## GRADUATE PROGRAMS

Biochemistry and Molecular Biology  
 Biophysics  
 Cell, Molecular, and Developmental Biology  
 Chemistry  
 Earth and Planetary Sciences  
 Entomology  
 Environmental Sciences  
 Environmental Toxicology  
 Evolutionary Biology Joint Doctoral Program  
 Evolution, Ecology, and Organismal Biology  
 Genetics, Genomics, and Bioinformatics  
 Mathematics  
 Microbiology  
 Neuroscience  
 Physics  
 Plant Biology  
 Plant Pathology  
 Statistics and Applied Statistics



The College of Natural & Agricultural Sciences (CNAS) at the University of California, Riverside (UCR) is home to world-renowned scholars pursuing research that deepens our knowledge of the universe we live in and improves the quality of life for inhabitants of the state, the nation, and the world. Central to this research is educating the students who come to CNAS to learn science, and who leave with an integrated grasp of how they can change the world. These students, and the faculty who teach them, benefit from a structure that is unique among land-grant colleges: CNAS's 13 departments encompass the life, physical, mathematical, and agricultural sciences. This structure encourages an extraordinary degree of collaboration, reflected in the interdisciplinary research centers and the many cooperatively taught degree programs. Modern science is team-based, and CNAS embodies that principle in everything it teaches and practices.

## BY THE NUMBERS

**UCR #3**

in Hispanic & Latino STEM graduates in the nation (National Science Foundation)

**2 NOBEL LAUREATE FACULTY MEMBERS**

**UCR #2**

in social mobility among all universities – public and private (US News & World Report 2023)

CNAS has produced more than **40** different citrus varieties, including the popular Tango mandarin, commonly marketed under the Cuties brand

**18 NATIONAL ACADEMIES MEMBERS**

**#3 IN ENTOMOLOGY IN THE WORLD** (EDURANK'S 2022 BEST UNIVERSITIES)

Top 1% for Most Popular Colleges for Mathematics. (College Factual, 2022)

Top 4% in the world for Biology. (EDU Rank's Best Universities 2023)

Top 5% in the world for Physics. (EDU Rank's Best Universities 2023)

Top 4% in Plant and Animal Science. (U.S. News & World Report's 2023 Best Global Universities Subject Rankings)

Top 9% in Chemistry. (U.S. News & World Report, 2023)

10th for Most Popular Colleges for Biochemistry, Biophysics & Molecular Biology. (College Factual, 2022)

Top 13% of world universities for life sciences. (Times Higher Education World University Rankings, 2022)

Top 14% of Best Colleges for Biology in America. (Niche College Rankings, 2023)

Top 16% of world universities for physical sciences. (Times Higher Education World University Rankings, 2022)

Top 18% for Best Global Universities in Environment/Ecology. (U.S. News & World Report, 2023)

Top 21% in Physics. (U.S. News & World Report's 2023 Best Global Universities Subject Rankings)

## ABOUT UC RIVERSIDE

Located on nearly 1,200 scenic acres in Inland Southern California and distinguished by more than 60 years of high-impact research, UCR is a living laboratory for the exploration of issues critical to growing communities. One of the most diverse, inclusive institutions within the prestigious 10 campus University of California system, UCR serves as an incubator of new knowledge, an engine of social mobility, and an economic powerhouse. For more information about UC Riverside, please visit [www.ucr.edu](http://www.ucr.edu).



## CNAS UNDERGRADUATE STUDENTS

### UNDERGRADUATE RESEARCH OPPORTUNITIES

**California Alliance for Minority Participation (CAMP)** encourages underrepresented students in the STEM fields to successfully complete science degrees and further pursue their studies at the graduate and professional level. ([ue.ucr.edu/initiatives/camp](http://ue.ucr.edu/initiatives/camp))

**Research in Science and Engineering (RISE)** is a summer research program that prepares students for graduate and professional study by providing valuable research experiences, training, seminars, meetings with the Divisional Dean, and professional development workshops. ([rise.ucr.edu](http://rise.ucr.edu))

**Maximizing Access to Research Careers Undergraduate Student Training in Academic Research (MARC U-STAR)** provides structured training programs to prepare high-achieving, underrepresented students for doctoral programs in biomedical research fields. ([marcu.ucr.edu](http://marcu.ucr.edu))

**Mentoring Summer Research Internship Program (MSRIP)** is a summer research program designed for rising juniors, seniors (and some rising masters students) from educationally and/or economically disadvantaged backgrounds to pursue their Ph.D. ([apro.ucr.edu/undergrad/msrip](http://apro.ucr.edu/undergrad/msrip))

**Next Generation Plant Biology Summer Research Program** is a NSF-funded Research Experience for Undergraduates (REU) program provides opportunities for students interested in the cellular and molecular biology of plants to perform research using next generation technologies. ([cepceb.ucr.edu/research-training/reu](http://cepceb.ucr.edu/research-training/reu))

**Artificial Intelligence for Sustainable Agriculture (AI4SA):** A key part of the AI4SA program is the Digital Agriculture Fellowship, which is designed for undergraduate students to gain hands-on experience in agriculture and research, and to provide the guidance necessary for entering the U.S. agricultural workforce. ([ai4sa.ucr.edu](http://ai4sa.ucr.edu))

**Building Bridges to the Professoriate (BB2P)** fosters collaboration between California State University, Fullerton and Fresno State University with the UCR to increase student engagement in undergraduate and graduate research in science and mathematics among underrepresented minorities (URM). ([cnasgrad.ucr.edu/bb2p](http://cnasgrad.ucr.edu/bb2p))

The majority of undergraduate students join research labs for hands-on experience in science research. Learn more about undergraduate research opportunities at [cnas.ucr.edu/student-research-opportunities](http://cnas.ucr.edu/student-research-opportunities).



### UNDERGRADUATE STUDENT SUCCESS PROGRAMS

**The CNAS Learning Communities** program is designed to build community and academic excellence amongst first-year science students through the collaboration of faculty, advisors, and peers at UC Riverside. Learning Communities facilitate an environment where students feel they belong in a community of scholars. ([cnasscholars.ucr.edu/cnas-scholars-learning-community](http://cnasscholars.ucr.edu/cnas-scholars-learning-community))

**The Science Ambassador Program** empowers undergraduate students by developing communication and leadership skills. These students represent CNAS programs at official functions, make presentations, and serve as a student liaison to various communities both on and off campus with an emphasis on recruitment. ([scienceambassadors.ucr.edu](http://scienceambassadors.ucr.edu))

**CNAS Transfer Connections** provides support and advancement opportunities for community college transfer students through workshops and peer mentoring, as well as academic and professional skill building activities. ([cnastransfer.ucr.edu](http://cnastransfer.ucr.edu))

**California Teach/Science-Math Initiative (SMI)** prepares students for careers in teaching. SMI aims to increase the number of math and science teachers who are prepared to meet the educational needs of diverse learners and dedicated to teaching in high need schools. ([smi.ucr.edu](http://smi.ucr.edu))

In addition to the above programs, several of our majors offer capstone courses that provide extensive hands-on training to students to prepare them for high paying skilled jobs. Discover more student success programs at [cnas.ucr.edu/student-success-programs](http://cnas.ucr.edu/student-success-programs).

## CNAS GRADUATE STUDENTS

Majority of CNAS graduate students pursue Ph.D. degrees. They are well supported by a variety of multi-year funding opportunities that include stipends, payment of the majority of tuition and fees, training grants, teaching assistantships, and appointments as a graduate student researcher. The CNAS Graduate Student Affairs Center ([cnasgrad.ucr.edu](http://cnasgrad.ucr.edu)) provides assistance to both applicants and enrolled graduate students. Examples of college mentoring, fellowship, and graduate student success programs are indicated below.

### GRADUATE STUDENT MENTORING & FELLOWSHIP PROGRAMS

**Career Mentoring of Underrepresented STEM Students for the Professoriate (CUSP)** is a University of California HSI Doctoral Diversity Initiative that provides mentoring and career development to graduate students who are interested in becoming professors and are from groups typically underrepresented in science, technology, engineering and math (STEM). ([cnasgrad.ucr.edu/cusp](http://cnasgrad.ucr.edu/cusp))

**Plants 3D National Research Training (NRT) Program** is a NSF-funded graduate training program enables biologists, engineers, and computational scientists to combine plant and microbial biology with engineering technologies to discover, design, and deploy plant-inspired solutions for agriculture and biotechnology. ([plants3d.ucr.edu](http://plants3d.ucr.edu))

**T32 Training Grant in Environmental Toxicology** is a NIH-funded graduate training program provides trainees with high-quality research training and a curriculum of study in subjects related to environmental toxicology, chemistry, statistics and research ethics.

**Graduate Assistance in Areas of National Need (GAANN) Training Grants** are Department of Education funded training grants provide support to trainees in 6 different college programs: Biochemistry and Molecular Biology; Evolution, Ecology and Organismal Biology; Entomology; Microbiology and Plant Pathology; Neuroscience; and Plant Biology.

**TRANSCEND** is a California Institute for Regenerative Medicine (CIRM) funded training grant educates students in stem cell biology, engineering, bioethics, and science to policy, allowing them to contribute to the creation of new knowledge in stem cell biology and regenerative medicine. ([transcend.ucr.edu](http://transcend.ucr.edu))

### GRADSUCCESS

**Graduate Writing Center** provides writing support through workshops and individual consultations. ([gwc.ucr.edu](http://gwc.ucr.edu))

**Teaching Assistant Development Program** provides pedagogical training and professional support for teaching development. ([tadp.ucr.edu](http://tadp.ucr.edu))

**University Teaching Certificate** is for graduate students interested in careers as professional teachers and researchers. ([tadp.ucr.edu/university-teaching-certificate](http://tadp.ucr.edu/university-teaching-certificate))

**Graduate Student Mentorship Program** supports incoming Ph.D. students with network of peer and faculty mentors. ([gradmentors.ucr.edu](http://gradmentors.ucr.edu))

**QUESTIONS  
WHEN  
APPLYING**

UCR Undergraduate  
Admissions  
[admissions.ucr.edu](http://admissions.ucr.edu)  
[admissions@ucr.edu](mailto:admissions@ucr.edu)

UCR Graduate  
Admissions  
[graduate.ucr.edu](http://graduate.ucr.edu)  
[grdadmis@ucr.edu](mailto:grdadmis@ucr.edu)

**QUESTIONS  
ONCE  
ADMITTED**

CNAS Undergraduate  
Academic Advising  
[cnasstudent.ucr.edu](http://cnasstudent.ucr.edu)  
[cnasstudent@ucr.edu](mailto:cnasstudent@ucr.edu)

CNAS Graduate  
Student Affairs Center  
[cnasgrad.ucr.edu](http://cnasgrad.ucr.edu)  
[cnasgrad@ucr.edu](mailto:cnasgrad@ucr.edu)