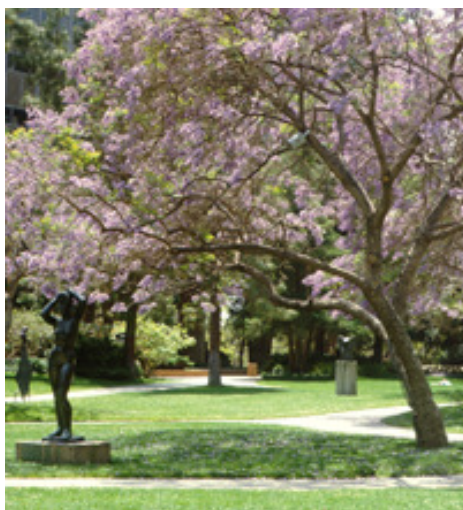


# 2011 UCLA Summer Programs for Undergraduate & Graduate Research Booklet



Summer 2011,

Dear Participants:

Thank you for your interest in the UCLA Summer Programs for Undergraduate and Graduate Research (SPUR/GR). These programs are intended to prepare, motivate, encourage and support students who wish to learn more about the graduate school experience and possibly pursue academic careers in teaching and research. In addition to receiving invaluable research experience, participants will have the opportunity to work one-on-one with faculty and to gain first-hand knowledge about graduate programs at UCLA. Through the summer program you will be linked to a valuable network of contacts who can provide support and assistance as you begin the process of applying to our graduate programs. We strongly encourage you to consider UCLA for your graduate studies. Please do not hesitate to contact a Program Coordinator if you have any questions or if we can be of any assistance to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael S. Goldstein". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael S. Goldstein, Ph.D.  
Interim Vice Provost for Graduate Education  
Interim Dean of the Graduate Division

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## Introduction

The UCLA Summer Programs for Undergraduate and Graduate Research (SPUR/GR) Booklet is intended to provide detailed information about the programs' design, campus facilities and amenities. Included is information about workshops, program scheduling, individual program descriptions and sample schedules from a previous year's programs. The Booklet is intended to serve only as a guide and is not a comprehensive description of all policies and procedures of the program. The Programs have final discretion on all decisions and policies.

## Overview

The UCLA SPUR/GR includes programs that are run conjointly to expose participants to a myriad of learning and research opportunities. Interaction with intellectual peers from a variety of disciplines provides a more academically enriching environment. The common goal of the UCLA SPUR/GR is to prepare participants for the graduate school experience. Participation in all of the programs requires a full-time commitment. Students are not to work nor enroll in class(es) during their 8- or 10-week program.

The program begins Sunday, June 19, 2011 and ends Saturday, August 13, 2011 (8-week program) or Friday, August 26, 2011 (10-week program). All participants are expected to arrive for check-in between 4:00 pm and 6:00 pm on Sunday, June 19, 2011. Check-out of the program will be conducted between 8:00 am and 11:00 am on Saturday, August 13, 2011 (8-week program) or August 26, 2011 (10-week program).

Although these programs are run collectively and have significant crossover, participants will also have unique experiences.

### The individual summer programs are:

- € Amgen Scholars Program
- € Brain Research Institute Summer Undergraduate Research Experience (BRI-SURE)
- € Bunche Center Summer Humanities Institute (SHI)
- € California State University Sally Casanova Pre-Doctoral Program
- € CARE Science, Engineering and Mathematics (SEM) Summer Research Program
- € Center for Embedded Networked Sensing (CENS)
- € Center for Scalable and Integrated Nano-Manufacturing (SINAM)
- € Graduate Division Summer Program for Undergraduate Research (GRDSPUR)
- € Physics and Astronomy Research Experience for Undergraduates (Physics and Astronomy REU)
- € Summer Nursing Program
- € University of California Alliance for Graduate Education and the Professoriate Summer Research Scholars (UC AGEPSRS)
- € University of California Leadership Excellence through Advanced Degrees (UC LEADS)

## Overview

The following is a description of the workshops, events, facilities and amenities made available to participants of the UCLA Summer Programs for Undergraduate and Graduate Research (UCLA SPUR/GR). Applicants should carefully review the information before applying to any of the programs to determine whether UCLA is an appropriate match. Also included are the policies and procedures of participation in the program. You may indicate up to two program choices on the online application.

## A Typical Week

Participants will be engaged in a variety of research projects and will each have slightly unique schedules. The following is a general guide to assist applicants in understanding the structure and schedule of the UCLA SPUR/GR. It is subject to change during the actual programs. Described below is a typical Thursday, which could programmatically be the most heavily scheduled day within the week. All other days are reserved for independent study, library time, etc. **It is the responsibility of the participant to effectively manage his or her time.** Schedules are provided in advance indicating deadline dates, event dates, workshop times and dates. Libraries and computer labs operate on reduced hours during the summer. The UCLA SPUR/GR strongly recommends participants access these resources during the day.

Summer Humanities Institute			
7:00 am	-	9:00 am	Breakfast at Covell Commons
9:00 am	-	4:30 pm	Seminar
Independent Research			
Time			
4:30 pm	-	5:45 pm	Seminar
6:00 pm	-	7:00 pm	BBQ once in June
7:00 pm	-	10:00 pm	GRE Prep Course (for 4-7 evenings)
Graduate Division/CSU Predoctoral Scholars			
7:00 am	-	9:00 am	Breakfast at Covell Commons
9:00 am	-	3:30 pm	Independent Research Time
4:30 pm	-	5:45 pm	Seminar
6:00 pm	-	7:00 pm	BBQ once in June
7:00 pm	-	10:00 pm	GRE Prep Course (for 8 evenings)
Science, Technology, Engineering, Mathematics (incl. Nursing)			
7:00 am	-	9:00 am	Breakfast at Covell Commons
9:00 am	-	4:30 pm	Laboratory, Library, or Computer Lab
4:30 pm	-	5:45 pm	Seminar
6:00 pm	-	7:00 pm	BBQ twice in July
7:00 pm	-	10:00 pm	GRE Prep Course (for 4-7 evenings)

## Scholastic and Practical Experience

The programs feature regular seminars on academic career opportunities, standardized test preparation, writing and research skills and strategies for enhancing success in applying to graduate school. Also scheduled are opportunities for informal discussion with UCLA graduate students as well as other cultural and educational activities.

The objective of the programs is to help prepare, motivate, encourage and support students who wish to learn more about the graduate school experience and possibly pursuing an academic career in teaching and research. The following is a list of some of the seminars offered in previous summers.

### **Applying to Graduate School**

This 1–2 hour seminar provides participants with information and techniques for preparing for and applying to graduate programs. They will learn what academic preparation is necessary and how to research and identify compatible graduate programs.

### **Career Options**

This is a 1–2-hour discussion on various career options for PhDs. Participants are provided with statistical information based on UCLA graduates.

### **Curriculum Vita**

This is a 1–2-hour seminar on preparing a curriculum vita (academic resume). Participants will learn how to effectively document skills, accomplishments and research experience.

### **Funding Graduate School**

This is a 1-2-hour discussion on the funding opportunities available for graduate school. Participants will be provided with resources and information to research appropriate fellowships and scholarships. Participants will also be presented with techniques to enhance the success of their applications.

### **Graduate Student Panel**

This is a 1–2 hour discussion on the graduate school experience from the perspective of current UCLA graduate students. The graduate student panel will provide honest and open information on identifying appropriate graduate programs, selecting a dissertation committee and the lifestyle of a graduate student at UCLA.

### **GRE Preparation Course**

*(Includes course materials.)* This 18-hour course includes modules on the verbal, quantitative, and writing components of the GRE. Diagnostic testing is incorporated in to the program to help the student best determine his/her level of preparedness. This course usually includes one full Saturday 9:00 am–4:00 pm and four evenings classes scheduled from 7:00 pm–10:00 pm at the beginning of the program. Scheduling is subject to change.

### **Personal Statement**

This 1–2 hour seminar is designed to give participants writing tips and the conceptual framework needed to write strong personal statements for graduate school, fellowships and other grant applications.

### **Preparing a Conference Presentation**

This 1–2 hour workshop teaches effective public-speaking skills, offers tips on giving slide presentations and explains the mistakes commonly made by presenters. Participants will be given the opportunity to practice presenting a small part of their research to others and receive feedback to improve their presentation skills.

### **Research Proposal**

This 1–2 hour seminar provides general guidelines on preparing a research proposal. The workshop attempts to address discipline-specific guidelines.

**Using PowerPoint**

This 1–2-hour presentation provides a general overview on using PowerPoint to prepare a conference presentation. Attendance at this workshop will be optional and by reservation only.

**Weekly Meeting with Graduate Assistants**

Weekly meetings are scheduled to provide additional academic support to participants. Participants discuss their work and provide peer feedback on the proposals, outlines, presentations, etc. These workshops are run by Graduate Assistants hired by the program.

Participants work independently under the guidance of their faculty mentors. The following assignments are required components of the program. After review and approval from the faculty mentor, participants are asked to complete the following:

**Research Proposal**

All participants will be required to submit a proposal for their research paper. Most research proposals will require a topic sentence, methods section and bibliography.

**Personal Statement**

All participants will be asked to write one personal statement either as part of an admissions application into graduate school or as a component for an application for funding (e.g., grants).

**Outline**

All Humanities and Social Science program participants will be required to submit an outline of their research paper. The outline should begin with a preliminary introduction and a general thesis statement. Three main points should be included in the body of the outline.

**Draft of Research Paper**

*(Not required for all participants; check with Program Coordinator)* Participants will be required to submit a draft of their research paper. The draft should be as close to complete as possible.

**Abstract**

All participants will be required to submit an abstract of their research paper. Dimensions will be specified by the Program Coordinator but typically includes a description of the final research paper's content and provide information about key findings and recommendations.

**Final Research Paper**

Most participants (e.g., those in CSU, GRD, SHI, UC LEADS) will be required to submit a final research paper. The length of the paper is a minimum of 15 typed double-spaced pages and should not exceed 25 pages.

**Oral Research Presentations**

*(Humanities and Social Science programs participants)* Participants are required to present their research at a mini-conference with an audience of their peers, faculty, family and other groups. The scheduling of this event is dependent upon the number of participants in the given year, but typically runs from 8:30 am to 3:00 pm and runs over the course of two days. Presentations run 10 to 15 minutes in length, plus time for questions.

**Poster Presentation**

*(Only for those in the sciences/math)* Participants prepare a poster presentation of their research. Posters will be viewed collectively during poster presentation days.

**Participation Testimonials**

Participants are asked to prepare a testimonial statement of their experiences in SPUR/GR. Testimonials may be used in the Booklet or program websites for future summer research programs.

## Group Activities

To facilitate interaction among the participants, the following events have been incorporated into the Programs' structure. It is the Programs' expectation that interaction with intellectual peers from a variety of disciplines will provide a more academically enriching environment.

### **Opening Reception and Closing Dinner** (Attendance required)

For 2011, the Opening Reception will be Monday, June 20, 6–9pm; and the Closing dinner (for all programs) will be Friday, August 12, 6–9pm. Mentors are invited to participate as well. RSVP requested.

### **Thursday Dinners** (Attendance required)

The group will meet once in June, 5:00 pm to approximately 7:00 pm, for an outdoor barbecue. Program Coordinators and faculty are invited to attend this event. Program participants are encouraged to invite their faculty mentors to attend.

### **Other Enrichment Activities** (Attendance optional)

Extracurricular activities can be scheduled to provide participants the opportunity to visit some of the culturally enriching areas of Southern California. Graduate Assistants to the SPUR/GR will organize several activities for students throughout the summer program. Examples of some activities are concerts at the Santa Monica Pier, museum trips, theme park visits, etc. Participants are free to make arrangements for their own activities and may request assistance with transportation from Program Coordinators.

## University Policies

All participants are expected to adhere to UCLA's and SPUR/GR policies. Failure to do so could result in loss of some or all of the stipend, meal allowance and/or other monetary payments. There is also the possibility that those who do not follow policy will be terminated from the program and asked to leave the residence hall and Program.

Applicable policies include but are not limited to the following (see <http://www.deanofstudents.ucla.edu/studentconductcode.pdf> for full contents of *UCLA Student Conduct Code [UCLA Code]*):

### **Alcohol/Drug Policy**

All participants shall abide by University laws and policies concerning the possession and consumption of alcoholic beverages, and all other policies, procedures, rules and regulations of the University of California, Los Angeles campus, and UCLA Residential facilities. Possession of opened or visible containers (e.g., cups, cans, bottles, cases/boxes) anywhere within or on grounds immediately adjacent to the residential facilities except in an assigned room where the door is closed (for those residential guests over 21 years of age) or at a UCLA catered event is strictly prohibited. The University also prohibits: unlawful manufacture, distribution, dispensing, possession, use or sale of, or the attempted manufacture, distribution, dispensing or sale of controlled substances, identified in Federal and State law or regulations. Possession of paraphernalia for intended or implied use of controlled substances, or paraphernalia possessing controlled substance residue, are prohibited.

### **Plagiarism and Sexual Harassment**

The Chancellor may impose discipline for the commission or attempted commission (including aiding or abetting in the commission or attempted commission) of the types of misconduct delineated in Section II.B of the *UCLA Code*. Discipline may be imposed whether or not such misconduct also violates the law, and whether or not proceedings are or have been pending in the courts involving the same acts. Because of this, students might be involved in University disciplinary proceedings before, after or during court proceedings. Violations or attempted violations include, but are not limited to, the following types of misconduct.

### **Plagiarism**

Plagiarism includes, but is not limited to, the use of another's words or ideas as if they were one's own, including, but not limited to, representing, either with the intent to deceive or by the omission of the true source, part of or an entire work produced by someone other than the student, obtained by purchase or otherwise, as the student's original work or representing the identifiable but altered ideas, data, or writing of another person as if those ideas, data, or writing were the student's original work.

### **Sexual Harassment**

As defined in Section 160.00 of the University of California Policies Applying to Campus Activities, Organizations and Students, unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal or physical conduct of a sexual nature constitute sexual harassment when such conduct by any student has the purpose or effect of creating a hostile and intimidating environment sufficiently severe or pervasive to substantially impair a reasonable person's participation in University programs or activities, or use of University facilities. See the UCLA Code for further definitions of sexual harassment and similar behavior.

## **Facilities**

### **Housing**

The UCLA SPUR/GR is a residential program, and participants are provided with residential facilities at UCLA. For Summer 2011, participants will be housed in Sunset Village. The accommodations call for shared rooming (**two people per room, four people per bathroom/shower**), which will allow participants from across the country to interact and form friendships with others from diverse backgrounds. **No individual accommodations will be available.** Room changes are not allowed except under dire circumstances. Any rooming issues are to be addressed following the procedures described on the housing information sheet provided to all participants.

All rooms are either double or triple occupancy with a bathroom (1 toilet, 1 shower, 2 sinks) shared with an adjoining double. All rooms are air-conditioned, non-smoking and equipped with alarm clock, telephone, Internet access, and sufficient bedding in the form of linen packs and bathroom supplies. Rooms are cleaned on a weekly basis. Such cleaning entails light vacuuming, emptying of wastebaskets, a fresh linen pack and cleaning of shared bathroom. No bedding, towels or other UCLA property may be removed from the sleeping rooms.

### **Rules for Residents**

As a UCLA Resident, you are responsible for knowing and abiding by the On-Campus Housing policies and regulations as outlined in the Student Handbook available at [www.orl.ucla.edu/handbook](http://www.orl.ucla.edu/handbook) and as stipulated by SPUR and other offices responsible for overseeing the residences (e.g., Housing Services, Office of Residential Life, Conference Services).

### **Key & Access Card Agreement**

Participants will be issued a room key and a house access card at check-in. Participants will be responsible for any damaged, lost or stolen keys. UCLA security policy requires that once a room key is lost, the room lock must be changed. The fee for a lock change is currently \$65.00. Any lost access cards must be replaced. The fee for a replacement card is \$30.00–\$100.00. The occupant of the room who loses the key and/or access card will be charged for these services. These amounts are subject to change. Updated information will be provided to participants during the check-in process.

### Telephone

Each sleeping room is equipped with a telephone that allows complimentary access to UCLA campus extensions. Rooms in Sunset Village offer complimentary access to local calls within a certain radius of the campus (some of the 310 area code). To make local and long distance calls, participants must use a prepaid telephone calling card. Phone cards are available for sale at the Covell Commons front desk, which is open 24 hours.

### Pets

No animals, except service animals, are permitted in the residential facilities.

### Quiet Hours

Designated quiet hours are 10:00 pm–9:00 am daily. Program participants serious about gaining maximum benefits of the program should be prepared to observe the quiet hours in respect of the study habits of their roommates and hall mates.

### Computer Access

Participants are strongly encouraged to bring their own computers if possible. Although every student will be given access to computer labs on campus, access is limited due to reduced operating hours during the summer.

There is an Ethernet connection in each sleeping room. In order to connect to the Internet from the room, participants' computers must have an Ethernet card installed. Ethernet cards may be purchased through the Student Technology Center on the first floor of the residence hall. Note: There is only **one** port per room, and participants will be sharing a room with one other person.

Sample of computer lab hours (**subject to change**)

Lab	Location	Mon – Thur	Fri	Sat	Sun
CLICC	145 Powell	9 am–8 pm	9 am–5 pm	1–5 pm	1–5 pm
CARE	2103 Life Sciences Bldg	8 am–5 pm	8 am–5 pm	Closed	Closed
Business Center	Delta Terrace	7:30 am–8 pm	7:30 am–6 pm	9 am–6 pm	12–5 pm
Life Sciences Lab	1154 Life Science Bldg	TBD	TBD	TBD	TBD
Student Tech. Ctr	330 De Neve Drive	8 am–Midnight	8 am–6 pm	Closed	Closed

### The Science & Engineering Library (SEL)

Included in the mission of the Science & Engineering Library is to: provide access to information generated by or of value to the engineering and the physical sciences research communities; develop, organize, and maintain a collection that attempts to meet the needs of its users; develop and strengthen working relationships with faculty, students, and staff; provide instruction that enables users to access and evaluate information resources; and participate in or respond quickly and creatively to the development of relevant technologies and standards.

Monday–Friday	Saturday	Sunday
9 am–5 pm	1 pm–5 pm	Closed

### Health Insurance

UCLA **does not offer** a health insurance plan for non-UCLA summer program participants. It is very important for participants to understand that insurance will **not** be provided during the period of the program. Thus, **all**

**participants are required to show proof of insurance that is valid during the period of their particular program.** Those without such documentation will be ineligible to participate in SPUR/GR. There are no exceptions to this policy.

## Parking

Limited parking is available near the housing facility on a reserved basis via reserving and purchasing a campus parking permit and a parking access card. Parking permits and access cards must be purchased and paid for in full at check-in with cash or a check. Checks should be made payable to "UC Regents." Reserved parking permits and access cards may be canceled, but cancellations **must** be made in writing (e-mail okay) to the appropriate Program Coordinator **before** the move-in date. Any cancellations on or after the move-in date will result in the participant being responsible for paying the full amount. There are no rebates for unused days (e.g., should a participant decide not to utilize the permit/access card for the entire length of the program).

For Summer 2011, permits for the 8-week program were \$230; for the 10-week program, they were \$310. The parking access cards were \$5 each. **These prices may increase and are controlled by UCLA Parking Services.** Participants must inform their Program Coordinator after admission into the program if they plan to purchase parking. Applicants need not make arrangements until after being admitted into the program, but note the cancellation policy—and possible penalty—above.

## Recreational Facilities

Campus recreational facilities will be available only to participants living in summer program housing. The house access card, provided with each room key at check-in, allows admission to all recreational facilities. The John Wooden Center and Sunset Canyon Recreational Center include swimming pools, weight rooms, tennis courts, racquetball courts and handball courts. Exercise classes are also offered. Registration and payment for these activities are the responsibility of the participant.

## Amenities

### Meals:

#### Breakfast

The only meal provided with participation in the program's on-campus housing is a full American breakfast. Breakfast is served every day of the week from 7:00 am to 9:00 am at Covell Commons, near the residence hall. Participants will be asked to be dressed appropriately for breakfast, including footwear.

#### Other meals

A meal allowance may be provided with your stipend (half at the beginning of the program and half at the end, upon successful completion of all program requirements). Participants may use that allowance to purchase non-refundable meal tickets at Covell Commons or other residence halls' dining services. Sample per-meal prices (subject to change)—lunch (served 11 am–2 pm): \$12.00 + tax, dinner (served 5 pm–8 pm): \$14.00 + tax.

The residence is equipped with vending machines that offer various snack foods. There are also ice machines, small refrigerators and microwaves in the common area study lounges in each wing (max. of 8) of the residence.

## Laundry Facilities

Participants have access to coin-operated laundry facilities within the housing. Hours of operation are from 7:00 am through 11:00 pm. To reduce noise levels and respect the rest and study of dorm mates, participants are asked to refrain from using the laundry room from 10:00 pm to 9:00 am. The cost per load is \$1.00 to wash and \$1.00 to dry. These prices are subject to change.

## Travel Arrangements

All participants living on-campus are expected to arrive on Sunday, June 19, 2011 between the hours of 4:00 pm and 6:00 pm. Some programs will make all roundtrip air travel arrangements. Others will reimburse travel up to the set limits: a maximum of \$200 for travel within California (but outside the Los Angeles area) or a maximum of \$450 for travel outside California. Please check with the appropriate Program Coordinator to see if you or the program will be making the travel plans. In those programs where travel is arranged for the participant: **Applicants who have accepted participation in the program and who make last-minute changes in travel will be fully responsible for the full cost of travel changes and/or cancellations.** A house meeting is scheduled for 6 pm on Sunday, June 19, 2011. All admitted participants are expected to attend. Plan to arrive at UCLA on Sunday, June 19 and leave Los Angeles, Saturday, August 13 (for the 8-week program) or Friday, August 26 (for the 10-week program).

Participants who are flying into the Los Angeles area will be responsible for arranging their own transportation between the airport and the campus. Participants should come prepared with enough funds to pay for shuttle or taxi fare. There is a Flyaway bus service from LAX to Westwood, at the south end of campus in Lot 32, for \$5 each way. However, it is a very long walk, uphill, to the residence hall (see campus map at [www.ucla.edu/map](http://www.ucla.edu/map)). For this reason, students can also use taxi services for drop-off at the housing location. Those participants who have not already reached the travel allowance may request reimbursement for shuttle or taxi fare up to the maximum allotted amount. To request a reimbursement, participants **MUST** submit an **original** receipt to his or her Program Coordinator. No original receipt = no reimbursement.

## Check-In

Check-in time is 4pm–6pm on Sunday, June 19, 2011. The UCLA SPUR/GR Coordinators and Graduate Assistants will be present to welcome you and assist you with the check-in process. If you plan to arrive earlier or later, please go directly to Sproul Hall to check-in and receive your keys. If you will be arriving before the allotted housing check-in time, you may go to Sproul Hall to inquire about dropping off your luggage until 4pm. If you arrive after the housing check-in time, go directly to Sproul Hall to check-in and receive your keys.

A room key and a house access card will be provided upon check-in. Participants will be able to purchase parking permits/access cards at check-in if reserved in advance (see cancellation policy and penalty information in the section on Parking above). **Failure to return these items to the designated official could result in a charge of \$100.00 per item not returned by or at check-out.** There is a telephone in each room. Your telephone number will be given to you upon your arrival.

## Check-Out

Check-out time is 8 am–11 am on Saturday, August 13, 2011 (for the 8-week program) or Friday, August 26, 2011 (for the 10-week program). Later check-out times are not available. The room key, house access card and UCLA Bruin Card must be returned at check-out. **Participants will be charged for any items that have not been returned to the official in charge at check-out.** Late check-out without prior Front Desk approval or not checking out with the official in charge will result in charges to the participant equivalent to one night's room rate (not per-person rate) for each night the participant is not officially checked out.

## [Amgen Scholars Program](#)

(Click on the program name above to learn more.)

The Amgen Scholars Program is a national program to increase learning and networking opportunities for students committed to pursuing a career in science or engineering. Beginning in Summer 2011, UCLA will host 24 Amgen Scholars. 12 will be undergraduates from UCLA and 12 will be from other 4-year colleges and universities. Students interested in summer research in any area of biomedical science, chemistry, bioengineering or chemical engineering are encouraged to apply. Students will be paired with a UCLA faculty mentor if the student does not already have one. Program includes: stipend; housing; meals; 3-day Biotechnology Conference in Los Angeles, California; GRE test preparation; luncheons with faculty; workshops; seminars and poster presentations.

- For undergraduates enrolled in four-year colleges and universities in the U.S., Puerto Rico and other U.S. territories.
- For sophomores (with 4 quarters or 3 semesters of college experience), juniors and non-graduating seniors (who are returning in the fall to continue their undergraduate experience).
- Must have a cumulative G.P.A. of 3.2 or above (cannot round up).
- Must be interested in pursuing a Ph.D. or M.D./Ph.D.
- 10 weeks, June 20-August 27 (all participants must be able to attend the program for its entire duration).
- To learn more about how to apply to this program, please contact Mike Flaxman at [AmgenSch@lifesci.ucla.edu](mailto:AmgenSch@lifesci.ucla.edu).

### **For more information:**

#### **Dr. Tama Hasson**

*Director, UCLA Amgen Scholars Program*

*Director, URC/CARE*

2121 Life Sciences Building

Box 951606

Los Angeles, CA 90095-1606

Phone: 310-206-2182

Fax: (310) 267-2219

Email: [amgensch@lifesci.ucla.edu](mailto:amgensch@lifesci.ucla.edu)

<http://www.ugeducation.ucla.edu/urc-care/AmgenScholars.htm>

#### **Christine Jordan Franks**

*Program Representative, UCLA Amgen Scholars Program*

2121 Life Sciences Building

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<http://www.ugeducation.ucla.edu/urc-care/AmgenScholars.htm>

## [Brain Research Institute Summer Undergraduate Research Experience \(BRI-SURE\)](#)

*(Click on the program name above to learn more.)*

The UCLA Brain Research Institute (BRI) is sponsoring a summer undergraduate research experience (BRI-SURE) program for Minority Access to Research Careers (MARC) Scholars. This program solicits applications from students in MARC training programs from universities and colleges across the nation. BRI-SURE is a 10-week summer research-training program for exceptional students interested in pursuing Neuroscience research careers. The program is designed to provide a rigorous, in-depth research experience to prepare participants for top-quality Ph.D. and M.D./Ph.D. programs in the Neurosciences.

BRI-SURE participants will:

- conduct independent research with outstanding training program faculty mentors
- work in a cutting edge science and technology environment
- gain exposure to some of the nation's finest neuroscience investigators and an extensive variety of research topics
- receive individualized career counseling and develop career interests
- participate in workshops, seminars and journal clubs
- build a social network with student peers and faculty
- prepare to apply to the best Ph.D. neuroscience programs

BRI-SURE selects participants based on academic achievement, leadership, and commitment to diversity. BRI-SURE seeks students from either underrepresented or economically disadvantaged backgrounds.

**Applicants must be MARC scholars.** The 10-week program includes weekly lectures given by BRI scientists tailored to our students. We also provide training in scientific writing and poster preparation and presentation. The program is under the UCLA SPUR/GR umbrella and participates in many of their campus wide summer activities such as the culminating summer poster day.

**For more information:**

**Dr. Dwayne D. Simmons**

*Associate Director, BRI Outreach*

MARC Director

Department of Physiological Science

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Fax: (310) 206-9184

Email: [BRISURE@mednet.ucla.edu](mailto:BRISURE@mednet.ucla.edu)

## **Bunche Center Summer Humanities Institute (SHI)**

*(Click on the program name above to learn more.)*

This eight-week preparatory program is designed to enhance the competencies of students who plan to pursue an MA or Ph.D. in the humanities or humanistic social sciences (anthropology, art history, cultural/critical studies, ethnomusicology, history, literature, political science, sociology). With the help of a faculty mentor (selected by the Program), students take seminars and workshops, go on field trips, write a research paper and present a conference paper. Program includes seminars, skills workshops, research, immersion activities in Los Angeles African-American culture, stipend, funds toward travel, meal allowance and on-campus housing.

- Students must apply separately to **BOTH** the SHI and SPUR/GR programs. See the Bunche Center for more information and deadlines.
- U.S. citizen or permanent resident.
- Primarily directed toward students from Historically Black Colleges and Universities (HBCUs) and toward other historically underrepresented students.
- Must have relevant undergraduate training.
- Submit two-page research proposal and six- to eight-page writing sample in addition to other supplemental materials.
- One letter of recommendation from faculty member or administrator.
- SHI does not accept students who plan to go into law, business, science, psychology or medicine.
- 8 week residential program

### **For more information:**

#### **Ana-Christine Ramon**

*Program Coordinator*

Bunche Center for African American Studies at UCLA

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<http://www.bunchecenter.ucla.edu>

## [California State University Sally Casanova Pre-Doctoral Scholars Program](#)

(Click on the program name above to learn more.)

This program is restricted to undergraduate and master's-level students in the California State University Sally Casanova Pre-Doctoral Program. The Program is designed to increase the pool of potential university faculty by supporting the doctoral aspirations of CSU students who have experienced economic and educational disadvantages. Each of the selected CSU Sally Casanova pre-doctoral scholars works closely during the academic year with a CSU faculty sponsor to develop an overall plan leading ultimately to enrollment in a doctoral program. Each of these plans is tailored to specific goals and educational objectives of the student. The Program places special emphasis on increasing the number of CSU students who enter doctoral programs at one of the University of California institutions. Summer Program includes: stipend, on-campus housing or housing allowance, meal allowance, funds toward roundtrip transportation cost, GRE test preparation, workshops and oral presentations.

- Open to all current CSU Sally Casanova Pre-Doctoral Scholars, both graduate and undergraduate.
- 8- to 10-weeks.
- CSU Scholars complete only the UCLA SPUR on-line application **after they have approval** from the UCLA SPUR Coordinator; do not submit supplemental materials.

### **For more information:**

#### **Anastasios Chassiakos**

*Director*

California Pre-Doctoral Program

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Email: [achassiakos@calstate.edu](mailto:achassiakos@calstate.edu)

[www.calstate.edu/PreDoc/summer\\_research.shtml](http://www.calstate.edu/PreDoc/summer_research.shtml)

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[www.calstate.edu/PreDoc/summer\\_research.shtml](http://www.calstate.edu/PreDoc/summer_research.shtml)

## [CARE Science, Engineering and Math \(SEM\) Summer Research Program](#)

*(Click on the program name above to learn more.)*

The Center for Academic & Research Excellence (CARE) SEM Summer Research Program offer hands-on research experience working in the laboratory of a distinguished UCLA faculty member. Each student is matched with a faculty mentor and works as a member of the mentor's research group. Program includes: stipend, housing or housing allowance, meal allowance, GRE test preparation, workshops, seminars and poster presentations.

- For UCLA students only who are interested in pursuing research careers in the life sciences, health sciences, physical sciences or engineering.
- Students entering junior or senior year with a GPA > 2.8.
- Must be U.S. citizen or permanent resident.
- A goal of the CARE SEM Summer Research Program is to increase the number of students from underrepresented groups in biomedical and behavioral research who progress towards the attainment of a Ph.D. degree. African American, Hispanic American, American Indian and Pacific Islander students are encouraged to apply.
- 10 weeks.

### **For more information:**

#### **Dr. Richard Weiss**

*CARE SEM Director*

Professor, Department of Chemistry & Biochemistry

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<http://www.ugeducation.ucla.edu/urc-care/spur.htm>

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## [Center for Embedded Networked Sensing \(CENS\)](#)

*(Click on the program name above to learn more.)*

CENS, a National Science Foundation Science & Technology Center, is developing Embedded Networked Sensing Systems and applying this revolutionary technology to critical scientific and social applications. Like the Internet, these large-scale, distributed, systems, composed of smart sensors and actuators embedded in the physical world, will eventually infuse the entire world, but at a physical level instead of virtual. The CENS summer program provides undergraduates the opportunity to gain hands-on research experience in CENS labs; to work with CENS faculty, staff and graduate students; and to participate in research, professional development and social activities with other CENS undergraduate scholars. Program includes: stipend, housing, meal allowance, GRE test preparation, workshops, seminars and poster presentations and networking activities.

- Eligible Fields: Engineering, Computer Science and Physical Science, Ecology.
- Eligible Undergraduates: Freshmen, Sophomore, Junior, Senior
- Must be a US Citizen or Permanent Resident.
- 8 weeks
- To learn more about how to apply to this program, please contact Wesley Uehara at [wuehara@cens.ucla.edu](mailto:wuehara@cens.ucla.edu).

### **For more information:**

#### **Dr. Karen Kim**

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## [Center for Scalable and Integrated Nano-Manufacturing \(SINAM\)](#)

*(Click on the program name above to learn more.)*

The Nano-Manufacturing Summer Academy provides undergraduates an opportunity to conduct research in the area of Nano-manufacturing. This program provides an excellent opportunity to be paired with a distinguished faculty mentor based on the student's area of research interest. At the completion of the program, students will be better prepared to attend graduate school and pursue research careers in the field of engineering. Program includes: stipend, housing or housing allowance, meal allowance, GRE test preparation, workshops, seminars and poster presentations.

- Students entering their junior or senior year and not graduating before March 2011.
- Must be a U.S. citizen or permanent resident.
- Students with a cumulative minimum GPA of 2.80 or greater.
- This program seeks to address the need of a critical shortage existing in the high tech work force. We strongly encourage students from underrepresented groups to apply.
- 8 weeks.

### **For more information:**

#### **Dr. Adrienne Lavine**

*SINAM Director*

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#### **KiMi Wilson, M.Ed.**

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## [Graduate Division Summer Program for Undergraduate Research \(GDSPUR\)](#)

*(Click on the program name above to learn more.)*

The UCLA Graduate Division Summer Program for Undergraduate Research (SPUR) is designed to target students who plan to pursue the PhD degree and enter academic or research careers. It offers undergraduates opportunities to work closely with UCLA faculty on a research project. Selection of participants will be based on academic merit and availability of appropriate faculty mentors. Program includes: stipend, on-campus housing or housing allowance, meal allowance, funds toward roundtrip transportation cost, GRE test preparation, workshops and oral presentations. Continuation of this program in Summer 2011 is contingent upon funding availability.

- For undergraduates who are interested in the arts, humanities, social sciences and professional schools (except dentistry, law, and medicine).
- Must be U.S. citizens or permanent residents.
- Must be juniors during the 2010-2011 academic year with a cumulative, minimum GPA of 2.80.
- A long-term goal of this program is to help broaden and expand the pool of academically talented young scholars committed to careers in university teaching and research. Applicants from groups historically underrepresented in higher education are encouraged to apply.
- 8 weeks.

### **For More Information:**

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## [Physics and Astronomy Research Experience for Undergraduate \(Physics and Astronomy REU\)](#)

*(Click on the program name above to learn more.)*

The University of California, Los Angeles, will offer a research experience program in Physics and Astronomy in which undergraduate students will work with a faculty mentor, as well as other professors, researchers and graduate students on a research project. All interested students are invited to apply for this 10 week summer program. The participants will gain direct experience by working in ongoing experimental or theoretical research programs in plasma and beam physics, solid state physics, astrophysics and high-energy physics. All students will attend weekly seminars on current research in physics and will attend machine shop and Physics GRE workshops. The experience will culminate with the writing of a report and presentation of findings at a closing Symposium. The educational part of the program will include social events with participants in other campus research programs, an astronomy camping trip and exploration of the Southern California area.

- 10 Weeks
- Participants must be US citizens or permanent residents enrolled in an undergraduate degree program in physics or astrophysics.
- Student must have finished at least one year of college but may not have completed a B.S. or B.A. degree.
- Student must have a minimum 3.0 GPA.
- College students from two-year or four-year institutions may apply.
- Women and students from traditionally underrepresented groups and institutions are encouraged to apply.

### **For More Information:**

#### **Francoise Queval**

*Academic Coordinator*

Physics and Astronomy

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## [Summer Nursing Program: School of Nursing](#)

*(Click on the program name above to learn more.)*

This program offers nursing undergraduates in their junior year with outstanding academic potential the opportunity to work on research projects with School of Nursing faculty mentors. It is designed for students who plan to pursue the PhD degree and enter academic careers in nursing. Program includes stipend, on-campus housing, meal allowance, funds toward roundtrip transportation cost, GRE test preparation, formal and informal discussion on career options and other activities. Each student participant will be assigned to a faculty mentor matched as closely as possible to the student's research interests and career goals. Participants will either assist the faculty member in an ongoing research project or, with approval of faculty, work collaboratively with the mentor in designing a new project of mutual interest.

- Research areas: Biobehavioral Sciences, Biologic Sciences, Health Disparities/Vulnerable Populations and Health Services Research.
- U.S. citizen or permanent resident.
- For qualified nursing students currently holding undergraduate junior status.
- Preference given to first-generation college students.
- Cumulative, minimum GPA of 2.80.
- 8 weeks.

### **For more information:**

#### **Rhonda Flenoy-Younger**

*Program Coordinator*

UCLA School of Nursing Summer Programs for Undergraduate Research

School of Nursing

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Email: [rflenoy@sonnet.ucla.edu](mailto:rflenoy@sonnet.ucla.edu)

[www.nursing.ucla.edu/research/summerresearchprogram.html](http://www.nursing.ucla.edu/research/summerresearchprogram.html)

**[University of California Alliance for Graduate Education and the Professoriate \(AGEP\) Summer Research Scholars](#)**

*(Click on the program name above to learn more.)*

AGEP Summer Research Scholars (SRS), funded by a National Science Foundation AGEP grant, sponsors underrepresented undergraduates to participate in hands-on research with leading UCLA faculty in science, technology, engineering and mathematics (STEM) fields. Program includes: stipend, travel reimbursement, on-campus housing, meal allowance, GRE test preparation, workshops, seminars and poster presentations.

- For undergraduates.
- Must be interested in pursuing a science, technology, engineering and mathematics (STEM) doctoral degree.
- Must be from backgrounds that are underrepresented in STEM doctoral fields and in accordance with the NSF (African Americans, Hispanics, American Indians)
- U.S. citizen or permanent resident.
- Priority will be given to applicants who are attending Historically Black Colleges and Universities (HBCU), Hispanic Serving Institutions (HSI), Minority Serving Institutions (MSI), Tribal Colleges and Universities Programs (TCUP) or California State Universities (CSU).
- To learn more about how to apply to this program, please contact Dr. Heather Tarleton at [tarleton@gdnet.ucla.edu](mailto:tarleton@gdnet.ucla.edu) or (310) 825-3829.
- 8-10 weeks

**For more information:**

**Karen Ravago**

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**Anna J. Guzman**

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## [University of California Leadership Excellence through Advanced Degrees \(UC LEADS\)](#)

*(Click on the program name above to learn more.)*

The goal of the University of California's new Leadership Excellence through Advanced Degrees (UC LEADS) program is to educate California's future leaders by preparing promising students for advanced education in science, technology, mathematics and engineering (STEM). The program is designed to identify upper-division undergraduate students with the potential to succeed in these disciplines, but who have experienced situations or conditions that have adversely impacted their advancement in their field of study.

Scholars are expected to complete the entire two-year program. The research objectives of the program are substantial and require a full-time student commitment. At the beginning of each academic year, scholars will be expected to develop a detailed plan of action with the guidance of their faculty mentor. The Action Plan will include information such as:

- Enrolled at University of California, Los Angeles, in an undergraduate degree program in the physical, life, or computer sciences; engineering; mathematics; physical anthropology, archaeology, geography, linguistics or experimental psychology. Transfer students are encouraged to apply.
- Applicants should apply prior to their junior year and/or should be on track to receive the baccalaureate degree at the conclusion of the second year of the UC LEADS program.
- Citizens or permanent residents of the United States
- Interest in using the doctoral degree to promote diversity in science, engineering and mathematics fields; and demonstrate perseverance and commitment to educational achievement.
- Students who intend to pursue professional graduate degrees in management (MBA), law (JD), medicine (MD) or dentistry (DDS) are not eligible for this program.

### **For more information:**

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#### **Charlene Chang**

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# Frequently Asked Questions

## Application Process

### **When is my application due?**

For your application to be considered complete, **all** materials must be **received** by the Program's deadline. This includes verification of financial aid, transcripts and letters of recommendation. Incomplete applications will not be given full consideration.

### **May I apply for more than one program?**

Yes. On the online application, you have the option to indicate up to two summer programs for which to be considered.

### **How will I know if my on-line application is complete?**

Once you've completed entering the application information, you must hit the "submit" button. Once you do, you will receive a confirmation page to keep for your records.

### **How will I know if my support materials have been received?**

Applicants can review the status of their application via the website <http://www.gdnet.ucla.edu/asis/srp/srpapply.htm> by clicking on the "status of your application" link. Information will be updated as materials are received.

### **May I apply if my GPA is less than the stated minimum?**

Be sure to check the eligibility requirements for the specific program(s) to which you are applying. In some cases, you might still apply, but as these are all very competitive programs, a lower GPA may be a disadvantage.

### **How can I tell if I need to fill out the financial aid verification form?**

Financial aid is usually given in the form of repayable loans (e.g., Stafford). Students receiving grants or stipends that do not have to be paid back are **not** receiving financial aid. Be sure to complete the online application according to your situation. If you are receiving a grant or scholarship and you check the "receiving financial aid box," we will await your financial aid verification. Your application will be considered incomplete until the verification is received.

### **May I FAX in materials to meet the deadline?**

Original documents are required. Special consideration will be given to applicants who are currently overseas. It is highly recommended that you contact the Program Coordinator to establish a reasonable plan of action.

### **Must all materials be submitted at one time?**

Letters of recommendation, transcripts and verification of financial aid package may arrive under separate cover but all must be **received** by the Program's deadline.

### **How many applications are typically received per year?**

For the 2011 cohort, SPUR/GR received over 700 applications for 100 spaces.

### **One or more pieces of my contact information have changed, how can I update my application information?**

You may access the on-line application and select the update information option. You will be asked to enter your email address and password to access your record.

### **Do I need to have a faculty mentor selected before applying to the program?**

Depending on the program, you are not at any disadvantage if you do not have a pre-selected faculty mentor. A faculty mentor will be arranged for you if you are selected to participate in the program. However, if you

wish to suggest a faculty mentor, visit [www.research.ucla.edu/faculty](http://www.research.ucla.edu/faculty). This is a site you search by keywords as well as by name. Be sure to mention the faculty mentor(s) name(s) in your essay.

**How is my application reviewed?**

Applications will be sent to the coordinator of the program deemed to be best suited for the student and his/her research interests. Consequently, you may be contacted by a coordinator from a program that differs from the one to which you had originally applied. A faculty review committee set up by the specific program will review all applications for that program.

**How will a faculty mentor be selected for me?**

Each student participant will be assigned to a faculty mentor with special expertise and interests matched, as closely as possible, to the participant's research interests and career goals. Participants will either assist the faculty member in an ongoing research project or work collaboratively with their mentor in designing a new project of mutual interest. If you wish to suggest a faculty mentor, visit [www.research.ucla.edu/faculty](http://www.research.ucla.edu/faculty). This is a site you search by keywords as well as by name. Be sure to mention the faculty mentor(s) name(s) in your essay.

**Am I able to enroll in summer classes while participating in the summer research program?**

The program is quite intensive and requires a full-time commitment. It is recommended that you not enroll in classes during the summer.

# Guidelines for Faculty Mentors and Student Participants

## Student Expectations

Participants will be assigned to ongoing research projects based on their defined area of research interest. **Participants are required to contact their assigned mentor once assigned** on the UCLA campus to discuss the nature of the work to be undertaken and to develop a schedule for future contact and project research.

Each student's specific research program will differ according to the faculty mentor and subject matter. Only in some cases will research undertaken by the student be "original." In all cases, however, participants should be shown where and how their work fits the overall goal or direction of the mentor's research.

Participants should expect to put in a full-time effort on their projects, which may include work on evenings and weekends, as the project and mentor/advisor may require. Research mentors will expect continued and sustained work throughout the eight or ten weeks from the student researchers.

Participants should expect **to meet at least once a week** with their research mentor/advisor, or more often depending on the project and the mentor's arrangement. Less frequent contact is not advised unless the research mentor/advisor will be away from campus or unless prior arrangements are made.

Participants will be expected to meet with the program staff/graduate assistant once a week during regularly scheduled meetings to discuss the progress of research project.

After discussion with the faculty mentor, participants will be required to submit a research proposal that will be due no later than the end of the third week of the program. This proposal will outline the research to be conducted and expected results of the project.

At the end of the program, humanities and social science participants will be required to prepare an oral presentation about research results and conclusions. Science students will be required to prepare a poster presentation about research results and conclusions. A final paper must also be submitted to the Program Director(s) and to the faculty mentor by the end of the eight-week of the program. The length of the paper should be a minimum of 15 typed, double-spaced pages.

Participants can expect advice and guidance about graduate school admission, graduate work career opportunities in research and teaching, and the nature of academic life from the research group and from the Summer Programs for Undergraduate Research staff.

Participants will be asked to evaluate the program and their research experience at various periods during the program and beyond.

## Faculty Mentor Expectations

Research mentors are asked to interact with the student researcher to integrate him/her fully into the research team, and to supervise the student's research activities. Participants **should not** be involved with daily clerical responsibilities nor should their work be mainly composed of laboratory maintenance.

Research mentors should work with the student(s) to develop a work schedule for the student's project, outline research goals and methodologies, and establish guidelines for the student researchers to follow. The

Program Coordinators may ask for a written outline of the student's work plan (proposal) by the end of the third week of the program.

Research mentors will acquaint participants with the "culture" of research and will discuss career opportunities in the discipline, especially teaching and academic research. One of the program benefits to the student is developing a professional relationship with the faculty mentor. Frequent interaction with the student provides the mentor with knowledge about the student's ability, work, performance, and potential for graduate school. Participants will therefore be encouraged to ask their mentors for letters of recommendation when they apply to graduate school.

Research mentors should help the student prepare the final report of the project and develop the oral presentation or the poster for the research symposium at the end of the session. The mentor and/or the graduate student program assistants will also be responsible for editing the student's paper for final submission to the graduate division.

**Research mentors are expected to be in contact with the participants before they arrive** on campus in order to outline the nature of the project and, if possible, provide a preliminary reading list. Participants will be instructed in their letters to contact you, his or her faculty mentor, by telephone or email to discuss the nature of the research project that will be conducted during this eight- or ten-week program.

Research mentors may expect ongoing written or oral reports (or both) from the participants as deemed necessary. Research mentors will be asked at the end of the program to submit an evaluation form on the student's work.

If a student must miss a required activity because of the research project or other related activity as required by the faculty mentor, the student will be asked to inform the staff by email and copy you on this message. This is done to maintain communication between faculty mentors and the program.

Research mentors are encouraged to attend their student's research presentation to be given at the research symposium at the end of the program. **Participants must complete all requirements for the program, and all work must be judged by the faculty mentor to be satisfactory.** Participants will be requested to have faculty mentor signatures on all assignments.