

# SUMMER 2019

## Call for Teaching Associates in all Research Disciplines

The Office of Summer Sessions is recruiting graduate students to teach INT 93LS courses in Summer 2019.

### BACKGROUND

Summer Sessions offers a 4-week pre-college program—Science and Engineering Research Academy (SERA)— that provides qualified high school students (residential and commuter) an introduction to the research enterprise through project-based, directed research in various fields. This program will provide students a hands-on experience and professional development by allowing them to choose and develop a research topic specific to the program track (e.g., Nanotechnology, Marine Biology, Global Studies etc.) they select under the direction of the Teaching Associate and Teaching Assistant (TA). Lastly, by taking a 4-unit course (*INT 93LS: Introduction to Research in STEM fields*), students will also experience the rigor of taking a college-level class.

**NOTE:** A humanities/social sciences track will be offered this year.

### QUALIFICATIONS

Minimum:

- Doctoral degree objective must be in a STEM, humanities or social sciences related field
- Master's degree or advancement to candidacy (by Spring 2019)
- One year teaching experience as a Teaching Assistant
- Must have enrolled status Spring and Fall 2019
- Strong desire to teach at a university level

### TO APPLY

Submit the following documents (electronically) to Anne Ellis, ([a.ellis@summer.ucsb.edu](mailto:a.ellis@summer.ucsb.edu)):

1. Updated CV
2. Teaching philosophy (1 page)
3. Short course description that a) outlines the general theme with sample topics that will be covered in the class; b) sample list of labs to be performed by students; and, c) sample research questions that students could investigate during the program. (1 page)

### NOTES:

1. To assist in developing your course description, please read the *Program Framework* below which includes the program schedule.
2. For graduate students enrolled in the *Certificate in College and University Teaching (CCUT)* program, this assignment will satisfy the teaching requirement.

### DEADLINE

**For primary consideration, applications should be submitted no later than Friday, October 5, 2018.** Interviews will be conducted during October so that research topics can be finalized and associates will have the academic year to develop the course.

### SALARY

\$4,492 (with advancement to candidacy)

\$4,267 (without advancement to candidacy)

## PROGRAM FRAMEWORK

Dates are subject to change but INT 93LS will be offered over 4 weeks during session A (June 24 – August 2, 2019). It will serve as the core curriculum around which students will branch out into their specific tracks (approximately = 24 students per track). The course will be comprised of lectures, labs, and discussion sections as follows:

|        | Lecture                   | Lab                        | Discussion                |
|--------|---------------------------|----------------------------|---------------------------|
| Week 1 | 80 minutes/day for 4 days | 180 minutes/day for 3 days |                           |
| Week 2 | 80 minutes/day for 4 days | 180 minutes/day for 3 days |                           |
| Week 3 | 80 minutes/day for 4 days |                            | 60 minutes/day for 3 days |
| Week 4 | 80 minutes/day for 4 days |                            | 60 minutes/day for 3 days |

Lectures will serve to teach students fundamental concepts in the particular track they choose leading to more specific topics current in the field. Students will conduct labs adapted from among various UCSB course labs demonstrating concepts that reinforce principles learned in lecture. Discussion sections will allow student groups to develop a research question, investigate findings, and present a final research project to their peers in a formal presentation on the last day of the program.

The learning outcomes of this course and program are:

1. to expose students to academic research in a university setting,
2. give students the opportunity to experience the collaborative nature of a research environment, and
3. teach professional scientific communication techniques via a group research project presentation and lab report.

## OFFICIAL COURSE DESCRIPTION

### ***INT 93LS: Introduction to Research in STEM Fields***

Introduction to university-level research experiences in STEM disciplines. Students participate in project-based, directed research while learning about current practices and trends. The course culminates with a group presentation and submission of findings.