



# Astronomy Live! at UCLA

Astronomy Live!, an outreach group based in the UCLA Department of Physics and Astronomy, is hosting an observational astronomy workshop for high school students during summer 2017. The goal of the workshop is to offer students an introduction to scientific research through the lens of observational astronomy as a first step towards pursuing a career in science. The workshop will be led by UCLA graduate students earning their Ph.D.'s in astronomy.

The program will span 8 weeks (June 13–August 1) and meet once per week for 3 hours on Tuesday evenings. Meetings will generally take place 7:30–10:30 PM on the UCLA campus (times may vary by  $\pm 1$  hour according to the weekly agenda). Transportation will not be provided. The workshop is targeted at high school upperclassmen (rising juniors and seniors) but underclassmen are also encouraged to apply. Access to a computer will be provided during meetings for each participant.

**There is no cost to apply or attend - it's free!**

## Each meeting will consist of:

- ✦ A “Skills Lab” where the participants learn a college-level skill valuable in general scientific research and/or observational astronomy (examples: keeping a research logbook, analyzing data, introductory scientific computing, navigating the night sky, strategies for communicating science, and the steps to becoming a professional scientist)
- ✦ A lecture presentation about a current astronomy research topic, such as exoplanets, galaxy evolution, next-generation telescopes, or black holes
- ✦ Hands-on use of high-quality telescope equipment for night-sky observing and research; training in telescope operation and observational techniques. Observing targets may include: the Moon, planets, nebulae, globular clusters, binary stars, and galaxies
- ✦ Time to work on individual research projects analyzing astronomical imaging data from telescopes

Throughout the workshop, participants will conduct a small research project focused on one or more astrophysical objects that they observe and collect data on. The project will culminate in a 5–10 minute presentation of the project's procedures and findings, as well as submission of a research log and brief summary of results.

Strong applicants will exhibit a desire to pursue science in college and/or as a professional career. They will have a particular interest in astronomy and a good overall academic record (GPA of 3.0 or above). Priority will be given to students who can attend the full program (all 8 weeks).



## Application Deadline: May 1, 2017

### Workshop Details

Dates: June 13 – August 1 (8 weeks), once per week every Tuesday

Meeting Times: 7:30 – 10:30 PM generally (times may vary some weeks by one hour earlier or later)

Location: UCLA, Physics and Astronomy Building, 430 Portola Plaza, Los Angeles, CA 90095

Cost: Free

Transportation: Not provided

Computer access: Provided to all students (during meetings only)

For questions, visit [www.astro.ucla.edu/content/summer-observing-workshop](http://www.astro.ucla.edu/content/summer-observing-workshop) or email us at <planet@astro.ucla.edu>

### Priority will go to students...

- ◆ that demonstrate a desire to pursue science in college and/or as a professional career
- ◆ that show an interest in astronomy, specifically
- ◆ entering 11<sup>th</sup> or 12<sup>th</sup> grade this coming fall
- ◆ with strong academic records (GPA of 3.0 or above)
- ◆ who can attend the full program (all 8 weeks)

The workshop organizers reserve the right to accept, reject, or place applicants on a waiting list as they see fit.

### How to apply:

#### Online

Visit [www.astro.ucla.edu/content/summer-observing-workshop](http://www.astro.ucla.edu/content/summer-observing-workshop) and fill out the online application.

#### By email

Print and fill out this form and scan it as a PDF. Attach the completed PDF file to an email with the subject line "Astronomy Workshop Application" and send it to <planet@astro.ucla.edu>.

#### By regular mail

Print and fill out the form below, then mail it to:

Astronomy Live!

430 Portola Plaza, Box 951547

Los Angeles, CA 90095-1547



## Astronomy Live! Summer Workshop Application

Name \_\_\_\_\_ Gender  M  F  Unspecified

School \_\_\_\_\_

Applicant's Address \_\_\_\_\_

Email \_\_\_\_\_ Phone number ( ) \_\_\_\_\_ - \_\_\_\_\_

High school GPA (on a 4.0 scale) \_\_\_\_\_

Emergency Contact: Name \_\_\_\_\_

Relationship to student \_\_\_\_\_

Daytime phone ( ) \_\_\_\_\_ - \_\_\_\_\_ Evening phone ( ) \_\_\_\_\_ - \_\_\_\_\_

### Please check one:

Which grade will you enter this fall?  11<sup>th</sup>  12<sup>th</sup>  Other: \_\_\_\_\_ (please indicate grade)

Will you be able to provide your own transportation to and from UCLA's campus (e.g., car, bus, walking)?

yes  no

Will you be able to attend every week of this program (June 13-Aug 1, 7:30-10:30 PM each Tuesday)?

yes  no If not, please explain:

### Please briefly answer each question:

Do you have any previous experience with astronomy (class, workshop, hobby, etc.)? Please list, if any.

Which math and science classes have you taken in high school? Please list.

Why do you want to participate in this program (in 2-3 sentences)?

What is (at least) one thing you hope to learn from this program?

Do you have easy access to an internet-connected computer (at home, at a library, elsewhere)? *This will not affect your eligibility.*  yes  no If so, indicate location: