Undergraduate Scholar Scientist
Directed Study with Dr. Katrina Dlugosch

Are you:

• Planning to take the biology core courses?
  ≡ Ecology (ECOL302), Genetics (ECOL320), Evolution (ECOL335)

• Interested in getting research experience in Ecology, Evolution, and Genetics?

• Interested in participating in a community of students doing research and studying for the core courses together?

If so, then this opportunity may be for you!

THE RESEARCH EXPERIENCE: The Dlugosch lab (http://dlugoschlab.arizona.edu) has been studying how populations of the plant yellow starthistle (Centaurea solstitialis) have been evolving after being introduced to different parts of the world. We have evidence that interactions with microbes have been important to recent evolution in the plant. A group of Scholar Scientists in this program will culture and identify microbes in the plant microbiome, and study the effects that these microbes have on the plants. Scholar Scientists will analyze their own data and prepare a poster for the undergraduate research poster session in the Spring.

THE COMMUNITY EXPERIENCE: The Scholar Scientists will be part of a cohort of students conducting research and meeting weekly to discuss progress in research and core courses. We will read additional material to delve deeper into the subjects, and discuss strategies to boost academic performance and prospects for future careers.

TO BE ELIGIBLE YOU MUST:

● Enroll in Directed Studies for 3 credits (9 hours / week) in both Fall and Spring
  This includes 1 hr a week of meeting with the cohort,
  and a total of 9 hrs / week of work on research and cohort activities.

● Plan to enroll in all three core courses.

TO APPLY: Send application materials (see below / reverse) to Dr. Dlugosch (kdlugosch@email.arizona.edu) by Weds Aug 29.
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APPLICATION FORM

Name:

Email:

Major (or intended major):

Expected graduation semester:

Will you be able to enroll for 3 credits of Directed Study in both Fall and Spring? Circle: **YES** or **NO**

Indicate when you expect to take...
- *Ecology (ECOL302):*
- *Genetics (ECOL320):*
- *Evolution (ECOL335):*

By **Weds Aug 29**, send this page and the following materials:

- An unofficial copy of your undergraduate transcript(s). You may also include high school transcripts if you wish.

- A copy of your weekly schedule indicating times that you could possibly meet for an hour each week. It is essential that we can find a weekly meeting time for the entire cohort, so please indicate all possibilities.

- A statement of interest in the program: In about 1 page or so, tell us about yourself and why this program is perfect for you! You do not need to have any previous research experience. Are you new to UA and trying to getting involved in research? Would a study community be especially helpful to you? Tell us!

Submit by email Dr. Dlugosch (kdlugosch@email.arizona.edu), or drop off at her office BSW424 (OK to slide under the door).

Feel free to email Dr. Dlugosch with any questions. You will receive a response to your application by Friday Aug 31.