

2020 University Research Scholars Program Engineering CURE

Students

Students are second semester freshmen Undergraduate Research Scholars, a program for high achieving students committed to research. Prior to joining you in their groups of 3 or 4, they have taken one 'Research and Creativity' course, covering different forms of research and skills such as hypothesis generating and primary literature searching. They are all enrolled in a 1-Credit Engineering Research Ethics in Spring 2020 and should be enrolled in 2 credits of ENG 4912.

Objectives

Over the course of the Spring semester students should be provided with an authentic research experience. This should give them:

- An increased understanding of the research process
- In-depth knowledge of their specific research topic
- The ability to engage with primary literature
- The ability to communicate their research
- An increased understanding of how researchers work
- Increased readiness for future research

Assessment

Please provide students with your expectations for them and goals you expect them to meet at the start of the semester. To track effort and participation we recommend asking students to submit a short weekly summary of their progress either in a lab book or online format (e.g. via Canvas). Final research outcomes can be graded according to a general rubric to reflect understanding, clarity and quality of communication. We will send out a nationally recognized survey instrument at the end of the semester. I am attaching the results of last year's report so you can see what items they will be asked to rate their gains on.

Research outcomes (Suggested)

- A **research poster** (*we encourage your students to present these at the Undergraduate Research Symposium on April 2nd <https://cur.aa.ufl.edu/spring-undergraduate-research-symposium/>*). Abstracts due date: February 26.
- A **research report**, written in the style of a journal article

** The research project does not need to be completed in order to present. Students can present the background, aims and proposed methods and any data they have so far.*

Scheduling

Research hours are determined by you and can be flexible. Depending on the project, students may all need to be in the lab at the same time or may be able to make progress individually. They are receiving 2 research credits, so should be committing around 6 hours a week each to their research

More information

The CURE team, Dr Anne Donnelly, Dr Ginny Greenway (egreenway@ufl.edu, CURE postdoc) and Dr Anthony Auletta (anthonyauletta@ufl.edu, CURE faculty) are here to help! Let us know if you would like further information or resources or discuss your plans with us.