



## RESEARCH/INDEPENDENT STUDY PROPOSAL FORM

Please complete this form and return to PAS 260 for registration. This form is for department records and is used to assign a grade at the end of the semester. Check your semester dates and deadlines: when an instructor's signature is needed to add, a Registration/Change of Schedule Form should also be submitted to the Office of the Registrar, Administration Building, Room 210, to be officially enrolled. If you're unsure of what units to register for, check with your advisor or lab manager. Students looking for required physics graduation units should sign up for PHYS 492/498H in their senior year. Please read the FAQ on the back of this form for more information.

**Student Name** \_\_\_\_\_ **Student ID #** \_\_\_\_\_

**Student Phone #** \_\_\_\_\_ **Student E-mail** \_\_\_\_\_

**Course Number** \_\_\_ 99 (Independent Study); \_\_\_ 92 (Directed Research); \_\_\_ 98H (Honors Thesis)

Other \_\_\_\_\_

**Number of Units** \_\_\_\_\_ (Note: The University and Board of Regents have set a standard of 45 hours of course work for each unit of credit awarded.)

**Are these units to be used towards your required physics graduation research units?** \_\_\_\_\_

(If yes, be sure to sign up for PHYS 492 Directed Research or PHYS 498H Honors Thesis in your senior year. Three (3) units are required for graduation.)

**Semester** \_\_\_\_\_ **Year** \_\_\_\_\_ **Department** \_\_\_\_\_

**Project Advisor** \_\_\_\_\_

**Title of Project** \_\_\_\_\_

**Estimated hours per week Student will spend on project** \_\_\_\_\_

**Estimated Project Advisor/Student contact hours per week** \_\_\_\_\_

**Description of project, including anticipated product:** (For serious research, you must attach a separate page with a project description) \_\_\_\_\_

### SIGNATURES:

**STUDENT** \_\_\_\_\_ **DATE** \_\_\_\_\_

**PROJECT ADVISOR** \_\_\_\_\_ **DATE** \_\_\_\_\_

Department of Physics  
Physics and Atmospheric Sciences (PAS) 260  
1118 E. Fourth Street, Tucson, AZ 85721

[academics@physics.arizona.edu](mailto:academics@physics.arizona.edu)  
(520) 626-0259



DIR. OF UGRAD STUDIES \_\_\_\_\_ DATE \_\_\_\_\_

### REGISTERING FOR UNITS

#### What course number should I register for?

The chart below should be used to determine which course number is appropriate for the work you will be doing. If you have questions, please check in with your Academic or Faculty Advisor.

Course Number	Grading System	Description
199, 299, 399, 499 Independent Study	S, P, F, I, W	Independent study is for students who are 1) performing routine tasks such as data entry or lab maintenance, 2) conducting internships outside of the university, or 3) doing directed readings/literature review. Students <i>do not</i> receive a letter grade for independent study credit: this credit is not calculated in your GPA.
299H, 399H, 499H Honors Independent Study	A, B, C, D, E, I, W	Students should adhere to the honors policy for Honors Independent Study units listed on the Honors College website at <a href="https://www.honors.arizona.edu/course-policies">https://www.honors.arizona.edu/course-policies</a> . Students must be enrolled in the Honors College to add these units. These should be used very rarely since only six (6) units of graded independent study can count towards your degree.
498/H Senior Capstone/ Honors Thesis	A, B, C, D, E, I, W	A culminating experience for majors involving a substantive project that demonstrates a synthesis of learning accumulated in the major, including broadly comprehensive knowledge of the discipline and its methodologies. Senior standing required. For Honors Thesis units please visit <a href="https://honors.arizona.edu/graduation-policies">https://honors.arizona.edu/graduation-policies</a> for details.
392, 492 Directed Research	A, B, C, D, E, I, W	Three (3) units of PHYS 492 or 498H are required for graduation. Students should be making intellectual contributions to an existing project or should be engaged in their own research. This cannot include kinds of experiences where the student is performing routine tasks or reviewing literature.

**How many times can I register for Directed Research/Independent Study?** Independent Study may be repeated an unlimited number of times, and Directed Research may be repeated for up to 6 units, and only 6

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units of Directed Research OR Honors Independent Study/Thesis may be applied to major requirements in Physics. Honors Thesis units can be repeated for a maximum of 6 units.

**How many units should I register for?** Students are expected to work a total of 45 hours for every 1 unit of credit (approximately 3 hours/week in a 15-week semester).

**100% Engagement:** PHYS 492 units are 100% Engagement qualified units. By completing a written paper, presentation, portfolio, or some other deliverable and a grade of “C” or higher you can earn a notation of completion on your transcript. Speak to your instructor for more information or visit <http://cos.arizona.edu/content/100-engagement> for details.