

Undergraduate Research in Pharmacology Guidelines

Undergraduate students interested in registering for Undergraduate Research in Pharmacology (PCOL:4199) should first read the following course guidelines:

- 1) Students must obtain permission to enroll. Before a student enrolls in this course, he/she must first meet with the faculty, within the Department of Neuroscience and Pharmacology, that the student is interested in working with. If the faculty member of interest agrees to mentor the student, then the student may enroll for research within the faculty's laboratory.
 - a. Note: The faculty research profiles will help to identify laboratories of interest.
<https://medicine.uiowa.edu/pharmacology/research>
- 2) This course is available for variable credit hours. When enrolling, the student must indicate the number of hours for which he/she is enrolling. Thus, the faculty and the student must establish, before the student enrolls, how many hours the student will work each week as this determines the number of credit hours the student will receive.
 - a. Note: 1 credit hour should be received for every ~3.5 hours devoted to laboratory work each week throughout the semester. Credit hours received should always be rounded to the nearest whole number. For example, 10 hours/week would equal 3 credit hours.
- 3) This course is graded on a letter grade basis (A, B, C, D, and F with +/- options).
 - a. Note: A rubric on how student research effort and participation is graded may be viewed below.
- 4) Student enrollment in this course is not to be used to compensate students for performing lab maintenance duties (washing dishes, preparing laboratory solutions, etc.). Enrolled students must be assigned to and actively working on a research project.
- 5) Students do not receive monetary compensation for laboratory work when enrolled in this course. Student compensation for work is course credit.

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Rubric – Research Effort and Participation

After completing a semester of research, faculty supervisors will grade student effort and participation in laboratory research using the following criteria.

Criteria	1	2	3	4	5
Effort	<ul style="list-style-type: none"> *Very little effort *Projects are of poor quality and unfinished *Assigned tasks are almost always completed late 	<ul style="list-style-type: none"> *Inconsistent effort *Partial project completion *Tasks frequently completed late 	<ul style="list-style-type: none"> *Acceptable effort *Projects generally worked on/completed with care *Tasks largely completed in a timely manner 	<ul style="list-style-type: none"> *Good, consistent effort *Attentive work on and/or thorough completion of projects *Tasks consistently completed on time 	<ul style="list-style-type: none"> *Always does their best *Produces a high-quality product *Tasks always completed on time
Contribution	<ul style="list-style-type: none"> *Impedes others' work *Never asks questions or offers ideas *Never contributes to lab work 	<ul style="list-style-type: none"> *Rarely asks questions or offers ideas *Seldom contributes to lab work 	<ul style="list-style-type: none"> *Occasionally asks questions or offers ideas *Contributes to lab work 	<ul style="list-style-type: none"> *Asks and offers meaningful questions and ideas *Consistently contributes positively to lab work 	<ul style="list-style-type: none"> *Consistently asks and offers meaningful questions and ideas *Excellent contributions to lab work
Attentiveness	<ul style="list-style-type: none"> *Almost never on task *Very little focus on research project or work *Does not listen and often interrupts when other are talking 	<ul style="list-style-type: none"> *Often not on task *Inconsistent focus *Does not always listen and will rarely add to conversation 	<ul style="list-style-type: none"> *Generally on task and focused on work *Listens to others and will occasionally add to conversation *Remembers what they are told 	<ul style="list-style-type: none"> *On task and focused the majority of the time *Listens when others talk and offers additional input *Listens for understanding and remembers what they are told 	<ul style="list-style-type: none"> *Consistently on task *Very focused *Listens when others talk and will often incorporate/build on ideas of others *Listens for understanding and relevance
Attitude	<ul style="list-style-type: none"> *Often disrespectful *Often makes inappropriate comments or questions only to challenge 	<ul style="list-style-type: none"> *Demonstrates inconsistent respect to peers and faculty *Occasionally makes inappropriate comments 	<ul style="list-style-type: none"> *Is generally respectful to peers and faculty 	<ul style="list-style-type: none"> *Shows respect to peers and faculty 	<ul style="list-style-type: none"> *Consistently respectful to peers and faculty

Total points possible = 20

Grades are assigned according to the following guidelines: A = > 80%, B = 60-79%, C = 50-59%, D = 40-49%, F = < 39%