

Researchers wanted:

New Lab Course for Biology Majors Fall 2017

PHYSIOLOGY LABORATORY



Subject Catalog number	Biology 189T
Short Title	Physiol. Lab.
Units	1
Time	Thursday 1-3:50 pm
Place	Science 1, room 216
Instructor	Ulrike Müller

Why you should take this course?

- **fulfill physiology lab course requirement** (in combination with lecture course Biol 162, Biol 163, Biol 165, or Biol 166)
- **conduct original research** as part of a course
- earn the chance to **present at a research conference**

Brief Course Description.

Prerequisites: Biol 102, Biol 103; co- or prerequisites: one of our upper-division physiology lectures courses (162, 163, 165, or 166).

Course aims: This lab course will allow students to fulfill their lab course requirements while conducting original research in physiology, with an emphasis on experimental research in animal physiology.

The goal is to conduct research projects that students can present at scientific conferences and that can serve as pilot data for scientific research proposals and publications, with the possibility of student co-authorship.

Research topic: Students will conduct research on the physiology of motor-control behaviors using fruit flies. This research is relevant to understanding how organisms respond to sensory stimuli to navigate around obstacles and through the environment. These projects will be most interesting to students who want to learn more about neurophysiology, behavior, and motor control. Students will learn how to create genetic constructs using fruit flies, conduct behavioral experiments, and analyze behavioral data.