Instructor: Dr. Karen A. Baskerville
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Office Hours: MWF 11:00 AM – 12:00 PM; WR 10:00 – 11:30 AM


Course Description:
This course consists of hands-on laboratory exercises designed to engage students in common techniques used in neuroscience research. Sheep brain dissections will be done to explore the anatomy of the brain, enabling students to understand better the circuitry of the brain. Students will learn histological techniques as well. Neurophysiological experiments will be done to study brain function and behavior. Gene expression methods will be done to expose students to molecular neuroscience. Student projects will be a major part of this course. For student projects, students will design their own experiments, collect data, and present their findings. This course is the laboratory component of BIO-412 Neuroscience.

Learner Outcomes:
By the end of the course, you will be able to:
• To identify the anatomical parts of the brain.
• To relate structure with function of the brain.
• To discuss how genes influence brain function.
• To design an experiment and present data like a neuroscientist.
Grading:

100-93 = A  
90-92 = A-  
87-89 = B+  
83-86 = B  
80-82 = B-  

77-79 = C+  
72-76 = C  
68-71 = C-  
65-67 = D+  
58-64 = D  
Below 58 = F

Student Project: Written Lab Report 100 points
Student Project: Presentation 30 points
3 Lab Reports @ 30 pts each 90 points
Review Questions 30 points
Total 250 points

The lecture part of the course is worth 75% of the final grade, and the lab part counts as 25% of the final grade.
### BIO-472 Course Outline

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