

Spring 2021

Biol 457 Fundamentals of Neuroscience

Instructor: Dr. Lucinda Carnell

Online with synchronous lab that meet Fri. 12-2 PM

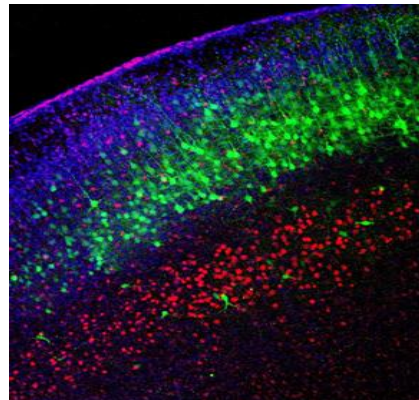
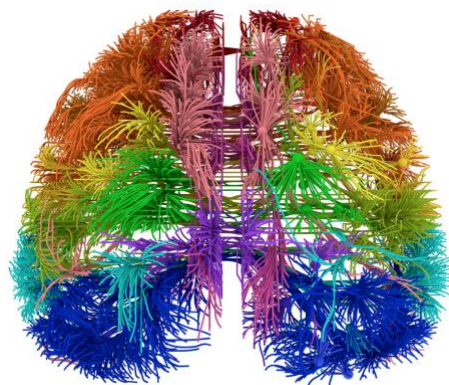
Prerequisite: Chem 431 or Biol 430 or permission

Neuroscience is a field with broad clinical and societal implications. The course will cover the basics cell and molecular biology of the nervous system and then integrate to the regulation of physiological systems and its affect behavior within organisms including humans.

We will read and present primary research articles and that cover topics at the forefront of neuroscience: neurodevelopment, learning and memory, aging and diseases such as addiction, Parkinson's, Alzheimer's, autism.

Excellent course for students interested in biomedical career and preparation for the entrance exam such as the MCAT for the following reasons:

- covers biological basis of behavior topics (section on MCATs)
- cover details of cell physiology, biochemistry and molecular genetics
- will gain valuable critical thinking and reading skills through reading and analyzing primary research articles--an important skill for the CAR section of the MCATs



Counts as a Structure Function or Molecular & Cell Group Elective