



FUNDAMENTALS OF NEUROSCIENCE

GMS 6007

This 2-credit, fully on-line semester course is designed to introduce you to the exciting field of Neuroscience. The information that we will cover will provide you with the basic frameworks required to understand how Neuroscience affects several medical fields including public health, public policy, and sports medicine, as well as the military and the pharmaceutical industry.

At the end of this course you will -

- Understand the basic anatomy, organization, and cells that make up the central nervous system.
- Be able to describe the basic neuroanatomy and functions of the primary sensory and motor systems.
- Understand the function of higher order Neuroscience systems including language, cognition, and memory.
- Understand the fundamentals of neural development.

This course consists of ten learning modules, each of which covers a key area in Neuroscience. Each module includes short lectures, online reading assignments, and a Beyond the Basics unit that ties the basic information covered in the module to current problems and exciting new developments in the Neurosciences. Your mastery of the module material will be assessed using self-check quizzes, module tests, and your posts on the Beyond the Basics assignment. In addition to the ten modules, you will create two projects in which you will examine a specific neuroscience topic in-depth.