Principles of Neuroscience I – Organization and Development of the Nervous System (GMS6021 - 2Credits)
Spring 2012

Directors:
Dr. Matt Sarkisian (matt.sarkisian@mbi.ufl.edu) (office: 352-392-6850)
Dr. Sue Semple-Rowland (Rowland@mbi.ufl.edu) (office: 352-392-3598)

Course Description
This five-week course will cover the basic principles underlying the development and organization of the nervous system. This course is the first in a series of three core course modules that are required for all IDP Neuroscience students. The objective of the course is to provide students with an overview of the fundamental processes underlying brain development. Questions that will be discussed include: How and where does the nervous system originate? How are the cell types that constitute the nervous system generated? How do progenitors know which cell type to become? How do progenitors find and reach their appropriate location in the brain? How do maturing neurons form synaptic connections?

The primary teaching format will be lectures followed at the end of the week by student-led discussions of material related to the topics covered that week. By understanding how the nervous system develops, students will be prepared for the 2nd and 3rd modules of this course that will focus on signaling in the nervous system and neural integration and control of behavior, respectively.

Textbook (Strongly Recommended)

Student Evaluation
Participation in weekly discussions/worksheets: 30%, written final exam: 70%