Dr. Gannon
Bailey Science Center 2.032, 229-333-5759
Office Hours: TR 11:00 – 12:00

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Syllabus

The objective of this course is to provide students with the knowledge of how the brain functions at the cellular level. We will examine how the nervous system operates while completing routine tasks such as maintaining posture or more sophisticated skills such as communicating with language. This course will also introduce students to some of the extremely sophisticated technology used by neuroscientists to explore the functions of the brain. Finally, this course will contrast the function of the nervous system in normal and pathological states in order to demystify the etiology of neurological diseases.

Topics will be divided into four general areas: neural signaling, sensory input, motor output, and modification of neural circuits in complex brain functors @PËÜÑ•2) Know the sensory

- 3) Know the motor pathways for output from the CNS;
- 4) Know the interactive processes in coordinating sensory in
- 5) Know chemical transmission and potential modifications
- 6) Know neuronal plasticity and potential uses/limitations of
- 7) Know the basics of neurological and motor diseases.

These goals support the Department of Biology Educational Oog

<u>Title IX Statement</u> Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment.

Required Text: Neuroscience, by Purves et al., 6th Edition

BIOL 3700 Neuroscience Spring 2021

Tentative Lecture Schedule

Neuroscience
Purves et al.,
6th Ed

Date Topic Chapter
1/12 Introduction – General Anatomy 1,

App.