

PNB 3251: BIOLOGY OF THE BRAIN

Instructor:

Dr. Radmila Filipovic, Assistant Professor in Residence
Physiology and Neurobiology Department, UCONN,
email: radmila.filipovic@uconn.edu

Textbook

Textbook: *Purves, Neuroscience, 5th edition*

Evaluation

The course grade will be based on the results of 4 quarterly exams and a cumulative final examination. The lowest grade of the 4 quarterly exams will be dropped leaving 3 exam grades that will each represent 25% of the course grade. All students must take the cumulative final exam that will contribute the remaining 25% to the course grade.

Academic integrity

Students are bound by The Student Code. If you cheat on any exam you will receive an F for the course. The Student Code describes the policies and procedures that will be followed for cases of academic misconduct such as cheating. For further information refer to http://dos.uconn.edu/community_standards.html.

LECTURE SCHEDULE:

Week 1:

5/16 Introduction to the Nervous System;
Ionic Basis of the Resting Potential
5/17 Ionic basis of the Action Potential
5/18 Ion Channels and Transporters
5/19 Synaptic Transmission

Week 2:

5/23 Receptors and Molecular Signaling
5/24 Exam #1

Week 3:

5/30 Sensory Systems Overview;
Somatosensory/Pain
5/31 Eye and Retina; Central visual pathways
6/1 Developmental Critical Periods
6/2 Exam #2

Week 4:

6/6 Auditory and Vestibular system
6/7 Motor Cortex and Spinal Cord
6/8 Basal Ganglia; Cerebellum
6/9 Exam #3

Week 5:

6/13 Early brain development and
construction of neural circuits
6/14 Neural Repair and Regeneration
6/15 Perception, Language and Cognition
6/16 Exam # 4; FINAL EXAM