

BIBB 310  
Structure of the Nervous System  
Spring 2015  
Monday 2:00-5:00pm  
Leidy Labs 114

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Office Hours: by appointment

<u>Date</u>	<u>Lab</u>
Jan 1/14	1. Introduction/Cell Biology
1/19	<b>NO LAB, Martin Luther King, Jr. Day</b>
1/26	2. Preliminary Examination of the Gross Brain
Feb 2/2	3. Preliminary Examination of the Gross Brain, continued
2/9	4. Spinal Cord
2/16	5. Medulla, Cranial Nerves, and Cranial Nerve Nuclei
2/23	6. Medulla, Cranial Nerves, and Cranial Nerve Nuclei, continued
3/2	<b>MIDTERM EXAM</b>
3/9	<b>NO LAB, SPRING BREAK</b>
3/16	7. Brainstem: Pons and Midbrain
3/23	8. Brainstem: Diencephalon, Thalamus
3/30	9. Brainstem: Diencephalon, Hypothalamus
4/6	10. Telencephalon
4/13	11. Cerebellum
4/20	12. Systems: Somatosensory, Somatomotor, Visual, Auditory, Limbic
4/27	<b>FINAL EXAM</b>

**Synopsis:**

A laboratory course designed to familiarize the student with the fundamental gross and histological organization of the brain. The mammalian brain will be dissected and its microscopic anatomy examined using standard slide sets available online. Comparative brain material will be introduced, where appropriate, to demonstrate basic structural-functional correlations.

**Penn CAL Web Site**

Much of the material presented in these laboratories is available to you over the CAL website for the Veterinary School. You and/or your laboratory partner should bring a laptop to class to view these images. You should go to:

1. <http://cal.vet.upenn.edu/projects/neurology/index.htm>

**Required Text:**

BiBB 310 Lab Manual  
Purchase at Campus Copy  
3907 Walnut Street

**Recommended Texts:**

1. Purves, D., et al Neuroscience, 5th ed., Sinauer, 2011
2. Kandel, Schwartz, Jessel, Siegelbaum and Hudspeth, Principles of Neuroscience, 5<sup>th</sup> ed., McGraw-Hill, 2013

**Canvas: <http://upenn.instructure.com>**

Slides and announcements will be posted on this site.

**Grading:**

The final grade will be based on 2 non-cumulative exams each worth 50%. The University recognizes religious holidays. If there are students who have a problem with the schedule date for an exam, they must take the exam before the scheduled examination date. No makeup exams will be given unless the student presents a *bona fide* excuse. Regrading – it is within your right to request that an exam question be regraded. Any such request will result in the reexamination of the grading of the entire exam.

Students have the option of giving a 10 minute oral presentation to the class on an approved brainstem structure. Worth up to 10 points