

COURSE SYLLABUS
Psychology B60F: Brain Mechanisms and Behavior

Professor: Gwen O. Ivy

Office: S569
Phone: 287-7438
Office Hours: Monday 11:00 a.m.- 12:00 noon
Wednesday 11:00 a.m.- 1:00 p.m.

Teaching Assistants:

Janina Ferbintineau - section 1
Janelle LeBoutillier - section 4
Paul Murphy - section 3
John Rick - section 2

Lectures: Monday 10-11, H305
Wednesday 10-11, S319
Friday 10-11, S143

LABS:

1. Tuesday, 2-4, S227 - Janina
2. Friday, 12-2, S227 - John
3. Wednesday, 7-9, S227 - Paul
4. Friday, 2-4, S227 - Janelle

Course Description:

This course is intended to provide students with the basic introductory background necessary for pursuing more advanced courses in the Neurosciences. Lecture topics include:

1. Introduction
2. Gross anatomy of the nervous system
3. Structure and biology of nervous system cells.
4. Non neural cells and structures
5. Physiology of neurons
6. Intracellular communication
7. Neuroregulatory systems
8. Development and plasticity of the nervous system

The labs will cover gross and cellular anatomy and will include a sheep brain dissection and histological examination of nervous system tissue. Students should bring their own dissecting equipment. The labs will also include discussion of scientific articles, to be handed out at appropriate times.

Grading:

Midterm Exams: 30%

October 16, 5-7 p.m., Lectures, Text, chapters 1, 2, 3 (20%)

October 30 - Lectures, Text - chapter 4, in lecture room (10%)

Lab Exams (2): 25%

15% Bell-ringer lab practical, Nov.3, during lecture time. Place to be determined.

10% Dec. 4, during lecture time, place to be determined.

Final Exam: 45%

The midterm and final exams will be a combination of objective (multiple choice and fill in the blanks) and short answer questions. The questions will be based on all assigned material including lectures, text book, and assigned readings. The final exam will include everything covered during the entire course, but the material in the second half of the course will be more heavily weighted.

The lab exams will include identification (bell ringer) and written components. The exam will be held during regularly scheduled lecture and lab periods.

Course Materials

Textbook: Can be purchased at cost from the TA's during scheduled lab times.
All other costs (sheep brain, Lab manual and additional readings) are included in the cost of the text, with the exception of dissecting equipment and latex gloves for those who wish to use them. Gloves will be sold in the lab at 25¢ per pair, and they are re-usable.

SCHEDULE

Sept.	11	Introduction
	13	Chapter 1
1	15	Chapter 1
	<u>18</u>	Chapter 1
	20	Chapter 2
	22	Chapter 2
	25	Chapter 2
2	27	Chapter 2
	29	Chapter 2
Oct.	2	Chapter 2
	<u>4</u>	Chapter 2
	6	Guest Lecturer, Paul Murphy, Histological Techniques including immunocyto-chemistry
	<u>9</u>	(Thanksgiving) no class
	11	Chapter 3
3	13	Chapter 3
	<u>16</u>	Chapter 3 Midterm 5-7 p.m. (20%) Chps 1, 2, 3
	18	Chapter 4
	20	Chapter 4
4	23	Chapter 4
	25	Chapter 4
	27	Chapter 4
	<u>30</u>	Lab Practical (15%) in Lecture Time, place to be decided
Nov.	1	Review
	3	Midterm Exam (10%) Chp 4
5	6	Chapter 5
	8	Chapter 5
	10	Chapter 5
	<u>13</u>	Chapter 5
	15	Chapter 6
6	17	Chapter 6
	20	Chapter 6
	22	Chapter 6
	24	Chapter 6
	<u>27</u>	Chapter 6
	29	Chapter 7
Dec.	1	Chapter 7
7	4	Chapter 7 Lab Practical (10%) in lecture time, place to be determined
	6	Chapter 7
	8	Chapter 7