

**Psychology 207  
Brain & Behavior  
Spring 1997**

**Instructor: Dr. Sharon Lewis  
Office: 214C Seney Hall, Tel 4-8374  
Office Hours: Mon. & Wed. - 2:00-3:00  
Tues. - 11:00-12:00  
Thurs. - 2:30-3:30  
(Other times by appointment)**

“Body and mind are not two different things, but only two different ways of perceiving the same thing.  
Similarly, physics and psychology are only different attempts to link our perceptions together by way of systematic thought.”

- Albert Einstein

**Texts:** Rosenzweig, Leiman, Breedlove (1996), Biological Psychology and Jubilan, Boyce M. (Ed.), Biopsychology - 96-97 (Annual Editions)

**Class Organization:**

The class will meet 2 times a week. Although attendance is not required the exams will include items based on information presented in class. In addition, I think you will find some of the material easier to understand if you both read about it in your text and hear it explained in class.

The final grade will be based on four 100 pt. exams, and your choice of a presentation or research paper, worth 50 points, for a total of 450 points. A letter grade will be assigned to the total number of points accumulated during the semester. An A requires 405 points, a B 360 points, a C 315 points, a D 270 points and anything below 270 points is an F. If your total puts you a few (2-3) points below a higher grade, your attendance record will be taken into consideration when assigning a grade. Make-up tests will be allowed only for officially excused absences.

**Presentation/Research Paper:**

In the first 2 weeks you will need to decide whether you would like to turn in a paper or make an oral presentation this semester. You need to turn in your decision in writing to me by Tuesday, January 28th. Presentations will be given sometime between April 8th and April 24th.

If you plan to give a presentation, use your text or lecture notes to find a topic in physiological psychology that interests you. Then use the library to find some recent (1992-1996) articles that tell you in detail what's happening in that area right now. The articles you select must come from scientific journals (e.g., JCPP, SCIENCE, J. of Abnormal Child Psychology, Neurology, Sleep Research, J. of Comparative Neurology, Brain, etc.). Try to be careful not to select articles that are so technical you can not

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understand what is being said. Your presentation to us should be a 10 minute, interesting, informative and critical summary of the topic you have chosen.

By Thursday, February 20th, you should submit to me your topic and a list of the articles you plan to present. By Tuesday, March 4th you must have selected a topic and set of articles that has been approved by me and should provide me with a copy of all such materials.

On Tuesday, March 25th, you should hand in a typewritten outline of your presentation. As soon as I know how many people will be giving a presentation, I will make up a schedule and announce the dates.

If you choose to do a research paper instead of a presentation, you must submit a topic for my approval with a bibliography by Thursday, February 20th. The topic must be relevant to the field of physiological psychology and all your references must be current (within the last 4 years). By Tuesday, March 4th, you must have selected a topic and bibliography that has been approved by me and provide me with a typewritten copy of your title and your bibliography. On Tuesday, March 25th you need to hand in a typewritten outline of your paper. The paper will be due at the time of the first scheduled oral presentation. It must be typed, in APA format and should be between 5-10 pages long.

### **Course Outline**

- I. Chapter 1 - Biological Psychology
- Chapter 2 - Neuroanatomical Bases of Behavior, Articles # 1, 4, 5, 6, 45
- Chapter 3 - Comparative and Evolutionary Perspectives on the Nervous System and Behavior
- Chapter 4 - Development of the Nervous System Over the Life Span, Articles # 11, 12, 13
- Chapter 5 - Neural Conduction, Synaptic Transmission & Neural Circuits

### **Exam I - Thursday, February 6th**

- II. Chapter 6 - Psychopharmacology
- Chapter 7 - Hormones
- Chapter 8 - Principles of Sensory Processing and Experience: Touch and Pain, Article # 18
- Chapter 9 - Hearing, Vestibular Perception, Taste and Smell, Articles # 15, 17
- Chapter 10-Vision: From Retinal Processes to Perception

**Exam II - Thursday, February 27th**

- III. Chapter 11 - Movements and Actions  
Chapter 12 - Sex, Articles # 25-28, "Measuring Up: Why Women Are Not Inferior to Men" - C. Tavis - On reserve in the library  
Chapter 13 - Regulation of Internal States, Articles # 20, 21  
Chapter 14 - Biological Rhythms and Sleep, Articles # 29-32  
Chapter 15 - Psychobiology of Emotions, Articles # 22-24, 33-35

**Exam III - Tuesday, April 1st**

- IV. Chapter 17 - Learning and Memory: Biological Perspectives, Articles # 38, 39, 46  
Chapter 18 - Neural Mechanisms of Learning and Memory, Articles # 3, 40  
Chapter 16 - Psychobiology of Mental Disorders, Articles # 41-43  
Chapter 19 - Language and Cognition

**Final Exam - Friday, May 2nd - 10:00-12:00**