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TEXT: Biological Psychology 2<sup>nd</sup> Ed. by M.R. Rosenzweig, A.L. Leiman & S.M. Breedlove (1999) Sinauer Associates.

Discussion sections (optional): Tu 10-11, 11-12, 12-1, or 1-2 in 3138 Tolman.

Wed 1-2, or 2-3 in 3140 Tolman.

You are **required** to participate in the research subject pool for this course. Each student must participate in 3 experiments, each of which may last up to one hour. Credit for one experiment can be earned by completing a survey in class. As an alternative to these experiments you may write a 5-10 page paper on a topic that **must be approved by the instructor before Monday, February 12<sup>th</sup>**.

**PREREQUISITES:** Psychology 100 or equivalent. This course is intended for Psychology majors. Integrative Biology, Cognitive Science, or Molecular & Cell Biology majors should seek other, advanced biological psychology courses (Psych. 111-119).

| LECTURES: |                     |   | <u>Reading</u>      |
|-----------|---------------------|---|---------------------|
|           | M, W, F 9-10:00 am, | 22 Warren.  |                     |
| Wed       | 1/17                | Introduction, aims, animals in research   | Chapter 1           |
| F         | 19                  | Cellular neuroanatomy.  | Chapter 2, pp 25-35 |
| Mon       | 22                  | Neuroanatomy at the systems level.  | Ch 2, pp 25-54.     |
| Wed       | 24                  | Neurophysiology at rest   | Ch 3, pp 54-65      |
| F         | 26                  | Neurophysiology of the action potential   | Ch 3, pp 58-65      |
| Mon       | 29                  | " " of synaptic integration   | Ch 3, pp 65-80      |
| Wed       | 31                  | Psychopharmacology.   | Ch 4                |
| F         | 2/2                 | " "   |                     |
| Mon       | 5                   | Hormones  | Ch 5                |
| W         | 7                   | " "   |                     |
| F         | 9                   | No class  |                     |
| Mon       | 12                  | Sexual behavior   | Ch 12               |
| W         | 14                  | " "   |                     |
| F         | 16                  | <b>FIRST MIDTERM.</b> Bring red scantron (ParSCORE # F-288-ERI-L) and # 2 pencil. <b>30% of course grade.</b> |                     |
| Mon       | 19                  | No class, Presidents' day.  |                     |
| W         | 21                  | Sensory systems: touch  | Ch 8, pp190-209.    |
| F         | 23                  | No class.   |                     |
| Mon       | 26                  | Sensory systems: pain   | Ch 8, pp209-217.    |
| W         | 28                  | Sensory systems: vision   | Ch 10               |
| F         | 3/2                 | " "   |                     |
| Mon       | 5                   | " "   |                     |
| W         | 7                   | Development   | Ch 7                |
| F         | 9                   | " "   |                     |
| Mon       | 12                  | " "   |                     |
| W         | 14                  | Motor systems   | Ch 11               |
| F         | 16                  | " "   |                     |
| Mon       | 19                  | Psychopathology   | Ch 16               |
| W         | 21                  | " "   |                     |
| F         | 23                  | No class.   |                     |
| M-F       | 3/26-30             | No classes, Spring Break.   |                     |
| Mon       | 4/2                 | Biological rhythms  | Ch 14, pp 379-386   |
| W         | 4                   | Sleep   | Ch 14, pp 386-406.  |
| F         | 6                   | " "   |                     |
| Mon       | 9                   | No class, Passover.   |                     |
| W         | 11                  | <b>SECOND MIDTERM.</b> Bring red scantron (ParSCORE # F-288-ERI-L) and number 2 pencil. <b>30% of grade.</b>  |                     |
| F         | 13                  | No class.   |                     |
| Mon       | 16                  | Learning and memory   | Ch 17               |
| W         | 18                  | " "   |                     |
| F         | 20                  | " "   |                     |
| Mon       | 23                  | Mechanisms of memory  | Ch 18               |
| W         | 25                  | " "   |                     |
| F         | 27                  |   |                     |
| Mon       | 30                  | Language  | Ch 19               |
| W         | 5/2                 | " "   |                     |
| F         | 4                   | " "   |                     |
| Mon       | 7                   | Last lecture. Concluding remarks, warnings.   | Ch 20               |

**FINAL, COMPREHENSIVE EXAM (40% of course grade):** Saturday, May 12, 8:00am, RTBA. Bring scantron & #2 pencil. Copyright 2001 S. Marc Breedlove as to this syllabus and all lectures. Students are prohibited from selling (or being paid for taking) notes during this course to or by any person or commercial firm without the express written permission of the professor.

Dear Students,

I know that, despite the Tele-Bears enrollment system, getting admitted into class can be a trial. After years of spending too much time in class trying to decide who really needed and wanted to enroll, I have settled on the following system.

I'm sorry for all the rules, etc., but I think the following system is fair in that it favors students who come to the first lecture, who keep coming and who show enough maturity, persistence and foresight to come to class prepared (i.e., have their 3x5 card filled out). Surely these are the students who would most benefit from the subject matter. We will accommodate as many students as our Graduate Student Instructors and the auditorium can support. I will favor Seniors (as verified on i.d. or the like) over Juniors, and Juniors over Sophomores. I urge any Freshman to wait and take the course in the future (get those prerequisites out of the way in the meantime!)

Thanks,

Marc Breedlove  
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#### WHAT MUST I DO TO BE ENROLLED IN PSYCHOLOGY 110?

1) YOU MUST FILL OUT, ON THE FIRST DAY'S CLASS, A 3X5 CARD WITH THE FOLLOWING INFORMATION:

|                                 |                        |
|---------------------------------|------------------------|
| LAST NAME, FIRST NAME MI        | STUDENT ID NUMBER      |
| YEAR IN SCHOOL (Fr, So, Jr, Sr) | TODAY'S DATE (1/17/01) |
| TELEPHONE NUMBER(S)             | DECLARED MAJOR         |
| EMAIL ADDRESS                   |                        |

PREREQUISITES I HAVE TAKEN AND SEMESTER I TOOK THEM:

(You must have taken Psychology 1 or 2 or equivalent and Psych 100A. If you have not yet taken Psych 100A, you may take this course only if you are concurrently enrolled in Psych 100B).

FINALLY: AN EIGHT DIGIT NUMBER BY WHICH WE MAY POST YOUR TEST SCORES. TRY TO MAKE IT A NUMBER THAT NO ONE ELSE IS LIKELY TO CHOOSE (i.e., don't choose 12345678 or the reverse). You might choose the seven digits of your phone number with a digit added to the beginning or end. **MAKE NOTE OF THE NUMBER YOU CHOOSE SO YOU CAN FIND YOUR SCORES.** If you would rather we used your student id above to post your scores, write a note on the card saying so and sign it.

**YOU MUST FILL OUT SUCH A CARD EVEN IF THE COMPUTER ADMITTED YOU OR YOU WILL BE DROPPED FROM THE CLASS AFTER THE FIRST DAY.**

On the first day we will have 3x5 cards available for you to fill out.

2) UNTIL you are admitted to the class, you must continue to come to each class and give to the instructor or teaching assistants (**after class only**) another 3x5 card with above information plus that day's date. (Sorry, you'll have to provide your own 3x5 cards after the first day). You must deliver the card in person-- you may not have someone else turn it in for you!

3) BE PERSISTENT, but please be responsible and patient, too.

University and departmental policy forbids grading exams from students who are not **officially enrolled** in the course.

OPTIONAL: If you would like to receive via email recent news reports on research relevant to biological psychology, you can subscribe to a listserver. WARNING: this list generates, on average, two emails per day so don't subscribe unless you're genuinely interested in the topic. NOTE: **never** will we knowingly test anyone in the class on materials that come through this listserver, so do not feel obliged to subscribe to improve your grade: it won't.

To receive Biological Psychology/Behavioral Neuroscience news [BP/BNnews] items, email the command:

subscribe biopsychology

in the text (not the subject line) to:

majordomo@listlink.berkeley.edu

Send the command

unsubscribe biopsychology

to the same address to unsubscribe.