

PSYC61S COURSE SYLLABUS: SPRING 1997

Instructor

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Office Hours: Wednesday 11-12

Tutorial Leaders:

Candace Ikeda-Douglas

Mike Michael

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Classrooms and scheduled times:

Lectures:

Monday 10-11 H-215

Wednesday 10-11 H-215

Friday 10-11 H-215

Tutorials:

T1 Tuesday 10:00-11:00 Room R3230

T2 Thursday 10:00-11:00 Room R3230

T3 Friday 14:00-15:00 Room H308

Course material:

For the lecture part of the course, the course material consists only of the lectures and the lecture notes, which can be purchased at cost. Readings consisting of original scientific articles will be assigned in the tutorials.

COURSE DESCRIPTION

This course is intended to provide an introduction to the neurobiology basis of motivation, reinforcement and learning and memory. The course starts with a discussion of regulatory motivations. These are central states that help to maintain homeostasis and include the behaviors of respiration, thermoregulation, drinking and feeding. The next topic is sleep, arousal and activity. The last topic covered in this part of the course will be motivations related to reproductive behavior.

The second part of the course starts with the topic of reinforcement, which is concerned with how external events control both ongoing and future behavior. Next we

will discuss memory systems. A focus will be on the existence of multiple distinct memory systems and on corresponding differences in brain organization. We will also cover processes and mechanisms underlying short term and long term memory. The final topic will be the cellular and molecular basis of learning and memory.

Exams And Grading

The course will have three midterm exams worth 15% each and a final worth 35%. The remaining 20% will be based on tutorials.

The exam questions will consist of multiple choice, fill in the blank, matching, true-false and short answer questions. Students will be responsible for the lecture notes and any updates covered in the lectures.

Tutorials

Tutorials will be used to review and discuss the material covered in lectures. Tutorials will also be used to familiarize you with original publications in the fields of motivation and learning. A few original scientific papers will be assigned and discussed.

Tutorial Grade. The tutorial grade will be based on:

1. Quizzes based on the tutorial assignments (8 % of final grade)
2. Class participation (4 % of final grade)
3. A mini-term paper (8 % of final grade)

Miniterm Paper. The miniterm paper is to be a 5 page review based on 5 original scientific articles dealing with an assigned topic.

SCHEDULE

Week	Date	Lecture Topic	Assigned Readings
1	Jan 6	Introduction Respiration Thermoregulation	Chapter 13
2	Jan 13	Thirst	
3	Jan 20	Hunger	
4	Jan 27	Biological Rhythms	Chapter 14 (Biological Rhythms)
	Jan 29	Test #1 - Chapter 13 and Chapter 14 (first part)	
	Jan 31		Chapter 14 (Sleep)
5	Feb 3	Sleep	
6	Feb 10	Sexual Behavior	Chapter 15
Feb 17-21 No classes - reading week			

- 7 Feb 24 Sexual Behavior
- 8 March 3 Reward Chapter 16
- March 7 Test # 2 - Chapters 14 (sleep)15, and 16
- 9 March 10 Reward and Schizophrenia
- March 14 Learning and Memory Chapter 17
- 10 March 17 Learning and Memory
- 11 March 24 Learning and Memory
- March 26 Learning and Memory (Cellular Mechanisms) Chapter 18
- 12 April 1 Learning & Memory
- April 3 - Midterm # 3 - Part of Chapter 16, Chapter 17
part of Chapter 18
- 13 April 10 Learning & Memory