Psychophysiology
Psychology 124/236
Winter Quarter, 2001
Thursdays 1:15-3:45

Instructor: James Gross, Ph.D.
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This seminar provides an overview of psychophysiology, the rigorous empirical study of mind-body relations. Topics include: principles of data acquisition and reduction, core psychophysiological concepts, the cardiovascular system, the electrodermal system, lie detection, emotion research, and health. Integrated laboratory sessions will provide hands-on experience.

Nuts and bolts

Class meetings have a discussion format. Laboratory sessions complement ongoing reading and class discussion by providing hands-on experience with psychophysiological measurement on topics such as lie detection. Class participation counts for 20% of the final grade. The in-class final counts for 80% of the final grade.

A course reader is required. It is available from the Stanford Bookstore, and is also on reserve at the library.
**Psychophysiology**  
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**Week 1: Introduction to psychophysiology**

**Class:** Thursday, January 11


**Week 2: Anatomy, Physiology, and Response System Overview**

**Class:** Thursday, January 18


**Laboratory**

Films, demonstration, and anatomy tutorial.


**Week 3: Data Acquisition and Data Reduction**

**Class:** Thursday, January 25


**Laboratory**

PC-based data acquisition.
**Week 4: The cardiovascular system**

**Class: Tuesday, February 6\textsuperscript{th} !! NOTE SPECIAL MEETING TIME !!**


**Laboratory**

Data acquisition and the measurement of heart rate.

**Week 5: The central nervous system**

**Class: Thursday, February 8 (Guest lecture by Dr. Judith Ford)**


**Laboratory**

Visit to the Palo Alto VA.
**Week 6: The electrodermal system and arousal**

**Class: Thursday, February 15**


**Laboratory**

Response fractionation and varieties of arousal.

**Week 7: Applications -- lie detection**

**Class: Thursday, February 22**


**Laboratory**

Lie detection.
Week 8: Applications -- emotion research

Class: Thursday, March 1


Laboratory

Eliciting emotion in the laboratory.

Week 9: Applications – psychological and physical health

Class: Thursday, March 8 (Guest lecture by Dr. Pat Cowings)


Laboratory

Visit to NASA Ames Research Center.

Week 10: Review and reprise

Class: Thursday, March 15


Laboratory

General review and Q/A period.