
PSY 401B/501B
Psychophysiology Laboratory
Spring, 2016

Supervising Instructor: John JB Allen (John.JB.Allen@Arizona.edu)
Laboratory Teaching Assistant: Lauritz Dieckman (lauritzd@email.arizona.edu)

Laboratory Location

Laboratory sessions will take place in the *Psychophysiology Laboratory*, room 409 Psychology. This is a research laboratory, but times will be made available for class members to conduct experiments, under the supervision of the teaching assistant, in the laboratory.

Meeting Times and Important Dates

Lab Mtg	Report Due
Jan 26 4:00-5:00	Lab Introduction & Tour
Feb 2 4:00-7:00	Skin Conductance (Feb 16)
Feb 23 4:00-7:00	Cardiovascular (Mar 8)
Mar 22 4:00-7:00	EEG (Apr 5)
Apr 12 4:00-7:00	ERP (Apr 26)

Description

Psychophysiology Laboratory must be taken concurrently with PSYC 401A/501A, *Psychophysiology Seminar*. The objective of the laboratory is to provide a pragmatic "hands-on" experience in psychophysiological recording and analysis. The laboratory will involve learning the many facets of psychophysiological signal acquisition and analysis. Four experiments will be conducted, each involving different response systems, offering you the opportunity to gain experience acquiring, analyzing, and interpreting autonomic and electrocortical psychophysiological measures.

Evaluation

For each experiment, students will be required to write an APA-style method and results section. These four papers will form the basis of your grade for the lab.

Experiments to be conducted

- Experiment 1: Skin-conductance Guilty Knowledge Technique
- Experiment 2: Electrocardiographic (EKG) responses to stress
- Experiment 3: Frontal electroencephalographic (EEG) spectral changes
- Experiment 4: Event-related brain potentials (ERPs)

Readings:

Readings will be provided as required in addition to the following, which should be read in advance of the first laboratory session (available from [reading list for downloads](#) on class website):

- Greene, W.A., Turetsky, B., & Kohler, C. (2000). . In J.T. Cacioppo, L.G. Tassinary, & G.G. Berntson, G.G (Eds.). *Handbook of Psychophysiology* (2nd edition; pp. 951-977). Cambridge, UK: Cambridge University Press.
(NOTE THIS IS THE PREVIOUS EDITION OF THE TEXT)