

HUMAN PSYCHOPHYSIOLOGY  
PSB 4324-6508

Fall 2001

FAU Davie Campus, Building MOD 38M  
Wednesday 7:10 PM – 10:00 PM

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Adjunct Instructor – College of Liberal Arts

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**COURSE DESCRIPTION:** The goal of this course is to provide an introduction to Human Psychophysiology. Students will be guided through this study through association with current topics and issues relating cognitive, emotional and behavioral events to physiological principles. This includes the study of clinical setting applications of psychophysiological knowledge to mental illness and brain injury.

**PREREQUISITE:** PSB 3002

**REQUIRED READING:** Andreassi, J.I. (2000). Psychophysiology: Human Behavior and Physiological Response. 4<sup>th</sup> Edition. Lawrence Erlbaum Publishers. Hillsdale, New Jersey.

Students are responsible for the content of all assigned articles.

**RECOMMENDED READING:** Cacioppo, J., Tassinary, L. (Eds). 2000). Handbook of Psychophysiology. Cambridge University Press.

Hassett, J. (1978). A Primer of Psychophysiology. W.H. Freeman and Company. New York.

Hugdahl, K. (2001). Psychophysiology – The Mind-Body Perspective. Harvard University Press. Cambridge, MA.

Publication Manual of the American Psychological Association. (2001). American Psychological association: Washington, D.C.

Stern, R., Ray, W., Quigley, K. (2000). Psychophysiological Recording. 2<sup>nd</sup> Edition. Oxford University Press, New York.

## CLASS SCHEDULE

Date	Chapter	Topic
8/29/01	1	Introduction to Psychophysiology
9/05/01	2	Measuring the Nervous System
9/12/01	18 Quiz	Basic Concepts in Psychophysiology
9/19/01	8	Electromyography (EMG)
9/26/01	9 Quiz	Electrodermal (EDR), Skin Conductance (SCL)
10/03/01	10, 11	Pupillary Activity and Eye Movements
10/10/01		Review for Midterm Exam
10/17/01		Midterm Exam
10/24/01	12, 13, 14	Heart Activity and Blood Pressure
10/31/01	3, 4 Quiz	EEG - Motor and Mental Activities EEG - Sensation, Attention and Perception
11/07/01	5, 6, 7	Event Related Potentials
11/14/01		Papers Due/Presentations
11/21/01	15, 16, 17	Applied Psychophysiology
11/28/01	19	Environmental Psychophysiology Review for Final Exam
12/05/01		Final Exam

### PAPER/PRESENTATION:

Students are required to submit a review and critical reading of three research articles that cover both a behavioral and biological issue relevant to this course in the field of psychophysiology. Examples might be “ EEG Biofeedback Intervention for Attentional Dysfunction” or “Interaction of Pharmacologic Agents and EEG”. Address theoretical and empirical issues in your paper. The paper should be congruent with the style and format described in the APA Publication Manual. Articles are to be current and within the last four years.

ORGANIZATION OF PAPER: Title page (title, author, course, semester)  
Abstract (short summary of the paper)  
Body of Paper (introduction, subsections, discussions, and conclusions)  
References (References cited in paper are included. Exclude references not cited).

INFORMATION ON PAPER: Choose a topic that interests you. The textbook, recommended readings and references from shared articles are good places to begin. Examples of journals include Biofeedback and Self-Regulation, Psychophysiology, International Journal of Psychophysiology or The Journal of Psychophysiology.

Submit copies of the articles with your completed paper. It is due on 11/14/01. No paper will be accepted beyond that date. Any paper that has been plagiarized from a published or non-published source will not only receive a grade of zero, but also all University policies will apply. Keep a back up copy of any materials that you present.

GRADING POLICY: Your grade will be determined in the following manner.

Quizzes	50 points each
Paper	100 points
Midterm	100 points
Final	100 points

A = 370 points  
B = 340 points  
C = 310 points  
D = 280 points

Note: You will be allowed to drop your lowest quiz grade.

### Course Policies

COURSE OBJECTIVE: The primary objective of this course is to introduce the field of psychophysiology. This concerns the measurement of psychological responses to broaden our understanding of the relationship between mental and physical processes.

ATTENDANCE: Students are expected to attend all scheduled classes and are responsible for all covered class material. It is the responsibility of the student to obtain material if absent and to withdraw from class through the registrar's office.

REQUIRED READING: Students are expected to read assigned chapters as indicated above. Copies of additional articles will be provided as a supplement to the required readings.

**EXAMINATIONS:** All students are expected to take exams on the day they are scheduled. Students must contact the instructor for a make up exam prior to the exam. Contents of the exam include required reading and lecture material. The format may include multiple choice, fill-in-the-blanks, and essay.

**QUIZZES:** Each quiz is worth 50 points. Short quizzes will be given at the beginning of class on designated dates. They will cover the material assigned to date in the class. The lowest quiz grade may be dropped. If you are absent for a quiz, that grade will be dropped. There are no make-up quizzes.

**STUDY QUESTIONS:** Study questions will be provided and are to be handed in prior to the quiz.