## Psychology 312-2 (Neurobiology & Behavior-2)

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### COURSE OUTLINE AND READING GUIDE.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Readings (SEE key below)</th>
</tr>
</thead>
</table>
| 1    | Neural Coding  
b. electrophysiological correlates of behavior  
(concluded from C12-1) | Andreassi 105, chapters 1, 2, 4, 5, *  
Donchin et. al. 103 @  
Neville et al. 104 @ |
| 2-3  | c. behavioral correlates of electrophysiology  
("Brain Wave Biofeedback")  
and other psychophysiological applications | Andreassi 105, chapter 6, 7, 8 *  
Andreassi 105, chapter 19 to p. 480 only biofeedback material.  
-See 312-2 site ppt#4  
Strehl 110 * 312-2 site ch 6  
Birbaumer 111 * 312-2 site ch 10. |
| 4    | Gross Anatomical Substrates of Behavior, especially learning and memory, from an evolutionary point of view | LASHLEY 1 pp. 27-75*; 312-2 site ch 4  
BARRETT 113, 312-2 site, Article number 11*  
CLARK et. al. 74 @  
Carlson 65, Ch 11* |
| 5    | Motivation: I Homestasis | Carlson,65, ch 13 * |
Week | Topic | Readings
---|---|---
6 | II The Reticular formation: Arousal  
III Limbic System  
Neurological & Addictive disorders | Carlson 65, Ch 15, 18 *

7-8 | Modern Deception Detection | Rosenfeld et. al. 111 * On pubs ch 4
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  | --See 312-2 site ppt 1,2,6,9

9-10 | b) Pleasure, Pain  
Analgesia Aggression | Rosenfeld 102 * 312-2 site ch 3
  |  | Melzack 100 Res@
  |  | Le BARS, 93, res @

**KEY reading instructions:** Know how to get to my web page for ALL assigned non-text readings: Google “J Peter Rosenfeld” and click “Lab homepage.” Of the 6 buttons at top right, some readings are under “Publications” (‘pubs’), some under “classes/312-2”. Sometimes you will see “ -See 312-2 site ppt#4” This means under classes/312-2, go to list of powerpoint presentations to the 4th one listed. This is not required, it lists slides I use in class. If you see “Strehl 110 * 312-2 site ch 6” it means a required (*) reading # 110 in bibliography, and the 6th reading under “Book Chapters and Articles”. If you see “On pubs ch 4”, that’s under the publications button, the 4th listed reading.

* - required of everybody, refers to whole line

res = on reserve
@ - strongly recommend
Basic References for C12-1 and 2.

1. Lashley: Brain Mechanisms and Intelligence. Hover (paper).
7. Stellar et. al. (Eds.) Progress in Physiological Psychology. (All Vols. to date)
11. Gross & Zeigler (Eds.) Readings in Physiological Psychology. (All Vols.)
15. Neurosciences Research Program Bulletins:
    15a. Vol. 6, #3, Neural Coding Perkel & Bullock (Eds.)
    15b. Vol. 7, #3, Evoked Brain Potentials MacKay (Ed.)
17a. The Neurosciences: A Study Program. Quarton, Melnechuk, Schmitt (Eds.)
17b. The Neurosciences: Second Study Program, 1970. (Rockefeller, etc. as in 17a)


44. Obrist et. al. (Eds.) *Cardiovascular Psychophysiology*, Aldine Press, 1974.


52. Liebeskind et. al., *Brain Research*, 50 (1973) 441-446.


60. Snyder *Arch Gen Psychiat*, excerpt tooshow transmitter systems.


106. Papers by Lubar (p4-5), Rosenfeld (p8-9), Baehr & Baehr (10-11), and Birbaumer (12-13) in Biofeedback, vol. 25, #1, Spring '97 Res.


111. Rosenfeld : P300 in Detecting Concealed Information
