

Neurobiology (4384)
(CRN # 26458)
Course Syllabus, Spring 2014
TR: 8:30-9:20 pm
Old Main 214

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Office Hours: Open door policy

TEXTBOOK (required) – *Neuroscience*, Fourth or Fifth Edition,
Editors: Purves, D; Augustine, G.J; Fitzpatrick, D; Hall, W.C; LaMantia, A.S; Mcnamara, J.O; White, L.E.
Publisher: Sinauer Associates, Inc. www.sinauer.com

(Suggested)– *Biological Psychology*, Sixth Edition
Editors: Breedlove, M; Watson, N.V; Rosenzweig, M.R.
Publisher: Sinauer Associates, Inc. www.sinauer.com

Census Day:	February 5 th
Course Drop Deadline:	April 4 th
Spring Brake:	March 10 th -14 th
Cesar Chavez Day	March 31 st
Final Exam:	TBA

Center for accommodation and support services:

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

OBJECTIVES:

Upon completion of this class, students should be able to:

- Understand the basic architecture of the Central and Peripheral Nervous System
- Understand the electrical properties of Neurons and propagation of signals in the Nervous System
- Analyze the components and function of the different neuronal circuits.
- Understand the mechanism of action of several pharmacological agents and their targets

EXAMINATION PROCEDURE

- There will be three exams during the semester.
- You must take all three exams. If you missed exams without a university accepted excuse, you may be withdrawn from the course. Exam will be multiple choices. Bring your own scantron sheet, number 2 pencils, and a very good eraser with you to all exams.
- There will be a comprehensive Final Examination of all the chapters that we have covered in the class during the semester.
- In addition to the above, there will be several homework assignments
- Attendance is optional; however, those that attend constantly are entitled to extra-credits

GRADING POLICY

A = 90-100
 B = 80-89
 C = 70-79
 D = 60-69
 F = Below 60

GRADE DISTRIBUTION

Exams (3) 50%
 Final Exam 25%
 Assignments/Quizzes 25%

LECTURE	TOPIC	Required Reading
1 – 2	Introduction: Studying the Nervous System	Chapter 1
3 – 4	Electrical Signals of Nerve Cells	Chapter 2
5 – 6	Voltage Dependent Membrane Permeability	Chapter 3
7 – 8	Channels and Transporters	Chapter 4
	EXAM-1	
9	Synaptic Transmission	Chapter 5
10 – 12	Neurotransmitter and their Receptors	Chapter 6
13	Molecular Signaling within Neurons	Chapter 7
14 – 16	Synaptic Plasticity	Chapter 8
	Spring Break	
17	The Sensory System: Touch and Proprioception	Chapter 9
	EXAM-2	
18	The Sensory System: Touch and Proprioception	Chapter 9
19 – 21	Pain	Chapter 10
22 – 23	Vision: The Eye	Chapter 11

24-25	The Auditory System	Chapter 13
26-27	The Chemical Senses	Chapter 15
28-29	Review	Chapter 1-15
	EXAM-3	
	FINAL EXAM	