

BIO 4813 Brain and Behavior, Sect 001
CRN 22203
SB 2.03.12
Tuesdays and Thursdays 3:30-4:45 pm

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OH After Class Tuesdays and Thursdays

Text: Breedlove, S. M., Rosenzweig, M.R., and Watson, N. V. *Biological Psychology*, fifth edition, Sunderland, MA, Sinauer Associates, Inc., 2007.

The purpose of this course is to teach you the fundamental workings of the brain and how these workings relate to various behaviors, such as perception, sensation, hormonally controlled behaviors, emotion and mental disorders, learning and memory, and cognitive functioning.

There will be five exams during class and a final. Exams will not be given early because of travel. Each exam will have 25 questions. The final will cover the last three chapters listed on the syllabus. Grades will be based on the class curve. Make-up exams will be given in the case of illness or family tragedy. These cases must be documented by doctors, priests, police, etc. The lowest exam grade will be dropped. There is no extra credit.

Jan 13 Introduction and Chapter 1 Biological Psychology Scope and Outlook
Jan 15 Chapter 2 Functional Neuroanatomy: The Nervous System and Behavior
Jan 20 Chapter 3 Neurophysiology: The Generation and Integration of Neural Signals
Jan 22 Chapter 4 The Chemical Bases of Behavior: Neurotransmitters and Neuropharmacology
Jan 27 Chapter 5 Hormones and the Brain
Jan 29 Chapter 6 Evolution of the Brain and Behavior
Feb 03 Review for Exam 1
Feb 05 Exam 1 Chapters (1-3)
Feb 10 Chapter 7 Life Span Development of the Brain and Behavior
Feb 12 Chapter 8 General Principles of Sensory Processing, Touch, and Pain
Feb 17 Review for Exam 2
Feb 19 Exam 2 Chapters (4-6)
Feb 24 Chapter 9 Hearing, Vestibular Perception, Taste, and Smell
Feb 26 Chapter 10 Vision; From Eye to Brain
Mar 03 Review for Exam 3 (Chapters 7-9)
Mar 05 Exam 3 (Chapters 7-9)
Mar 10 Spring Break
Mar 12 Spring Break
Mar 17 Chapter 12 Sex: Evolutionary, Hormonal, and Neural Bases
Mar 19 Chapter 13 Homeostasis: Active Regulation of Internal States
Mar 24 Review for Exam 4
Mar 26 Exam 4 (Chapters 10, 12, and 13)
Mar 31 Chapter 14 Biological Rhythms, Sleep, and Dreaming
Apr 02 Chapter 15 Emotions, Aggression, and Stress
Apr 07 Chapter 16 Psychopathology: Biological basis of Behavioral Disorders
Apr 14 Review for Exam 5 (Chapters 14-16)
Apr 16 Exam 5
Apr 21 Chapter 17 Learning and Memory: Biological Perspectives and
Apr 23 Chapter 18 Learning and Memory: Neural Mechanisms
Apr 28 Chapter 19 Language and Cognition
Apr 30 Student Study Day
May 08 Final Exam (Chapters 17-19) 10:30-1:00 pm