

PSY 2600:931
Summer 2013

PSY 2600 Psychobiology Course Description

Henry Heffner, Prof.

Introductory Blackboard Page

Read the Syllabus.

The test and exam dates are listed on the Home Page.

Practice quizzes and Hear & Spell tests are taken from any computer.

Exams are taken supervised in University Hall, Room 5000 in the Fall and Spring Terms. Summer term exams are not proctored and the time allowed for each exam is shortened.

Get the textbook and begin.

The first three chapters of the textbook are available online so that you can begin studying now (click on "Textbook" in the menu on the left).

The textbook for this course is: *A Concise Guide to Psychobiology*. It is available from both the UT Bookstore and the Rocket Bookstore on Bancroft.

Syllabus

Psychobiology

PSYC 2600-901

Psychology

This course provides a basic introduction to psychobiology. It uses a textbook designed for college sophomores. Students take practice quizzes on each of the 20 chapters. Grades are based on 7 exams of approximately 18-30 questions each, as well as "Hear & Spell" tests for each chapter. Students are allowed to retake one exam at the end of the term.

Recommended Prerequisite: PSYC 1010 Introductory Psychology

Course Goals

The purpose of this course is give you a basic understanding of the neurological basis of behavior so that you can 1) better understand magazine and newspaper articles about the brain, 2) be prepared for advanced courses in neuroscience, and 3) have some knowledge of the neurological disorders that you may encounter during your lifetime.

Instructor Information

Henry E. Heffner, Ph.D.

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B.A., Trinity College, Psychology; M.S., Florida State University, Psychology; Ph.D., Florida State University, Psychobiology.

Field of Interest: Role of auditory cortex; Comparative study of hearing; Tinnitus; Ethics of animals research.

For more about me go to: <http://psychology.utoledo.edu/showpage.asp?name=hheffner>

The exam schedule can be found on the Home Page.

Each exam will have 20-32 questions.

Academic Honesty. You **may not** receive help from anyone while taking an exam. Students are expected to adhere to the University of Toledo's policy on honesty, which can be found at: <http://www.utoledo.edu/dl/students/dishonesty.html>

Scoring Exams. The exam questions will be matching or multiple choice, with each question based on a practice question.

Note that you will have anatomy questions from previous exams appearing on subsequent ones.

Hear & Spell Tests

In order to be considered educated, you must pronounce and spell names and technical terms correctly. For this reason, many pronunciations are included in the textbook.

To reward students for learning these pronunciations, there is a "Hear & Spell" test for each chapter, which uses those words. You may take each test over and over until you get the score you want.

Each correctly spelled word on a Hear & Spell test is worth 0.05 points. Because there are about 400 words, this adds up to 20 points, which is 10% of your total grade.

Missed Exam Policy

Contact the Instructor as soon as possible.

Final Exam

Instead of a Final Exam, you are allowed to retake one exam of your choice. Your score on the retake will be your final grade for that exam, even if it is lower than your first score. However, if you are satisfied with your final grade, or do not wish to take the chance of getting a lower score on the retake, you do not have to take it. If you want a retake, you will need to let me know by the last week of classes.

Students must email the instruction by the last week of classes to retake an exam. The email should state which exam they wish to retake.

Extra Credit: There is no extra credit. So be sure to take all the Hear & Spell tests (and study for the exams).

Contact me if you have ANY questions

I am here to help so contact me with your questions. The best way is to email me on this course

Course Evaluation

As with all UT courses, students will be able to fill out a course evaluation, which is anonymous.

Chapter 11

Chemical Senses: Taste, Olfaction, and the Vomeronasal Organ

- Introduction
- Taste (Gustation)
- Olfaction (Sense of Smell)
- Vomeronasal Organ
- Cranial Nerves

Chapter 12

Somatosensory System

- Introduction
- Discriminative Touch
- Thermal Sensitivity
- Pain (Nociception)
- Kinesthesia
- Somatosensory System Anatomy
- Vibrissae Sense

Chapter 13

Control of Movement

- Introduction
- Muscles and Motor Nerves
- Spinal Reflexes
- Control of Movement by the Brain

Chapter 14

Regulating the Internal Environment

- Introduction
- The Autonomic Nervous System
- Neural Regulation of the Autonomic Nervous System
- Eating and Appetite

Chapter 15

Biological Rhythms Including Sleep

- Introduction
- Biological Rhythms
- Neural Control of Biological Rhythms
- Sleep
- Sleep Disorders

Chapter 16

Emotion and Stress

- Introduction
- The Study of Emotion
- Central Nervous System Circuits
- Prefrontal Cortex

Aggression

Reward Centers in the Brain

Stress

Chapter 17

Brain Mechanisms in Learning

- Introduction
- Habituation and Sensitization
- Classical Conditioning
- Operant Conditioning
- The Medial Temporal Lobe and Memory
- Other Human Memory Disorders
- Long-Term Potentiation

Chapter 18

Language and Consciousness

- Introduction
- Animal Communication
- Cortical Speech Areas
- Lateralization of the Speech Areas
- The Split-Brain
- Consciousness

Chapter 19

The Malfunctioning Mind

- Introduction
- Psychiatric Conditions with Known Organic Causes
- Schizophrenia
- Environmental Considerations in Mental Illness

Chapter 20

The Symbiotic Nature of Animal Research

- Introduction
- Symbiosis
- Domestication
- How Humans Benefit from Their Mutualistic Relationship with Animals
- How Animals Benefit from Their Mutualistic Relationship with Humans
- Philosophical Issues