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

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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

Textbook

A Concise Guide to Psychobiology . (Available from the UT Stud ent bookstore and the Rocket Bookstore on Bancroft.)

Policies

Attendance consists of taking quizzes and exams on time. These policies and procedures will be followed as closely as possible, but are subject to change.

Course Requirements

Your grade for the course is based on seven exams, each covering two-three chapters. You will be allowed to retake one exam at the end of the course. The grade you receive on the retake will be the final grade for that exam, even if it is lower than your first score . (Note that the retake is optional and that you have to le to me know which exam you want to retake.)

The grading scale is:

90% & above = A,

88-89.99% = A-

86-87.99% = B+,

80-85.99% = B,

78-79.99% = B-,

76-77.99% = C+,

70-75.99% = C,

68-69.99%= C-,

66-67.99% = D+

60-65.99% = D,

58-59.99% = D-

below 58% = F.

Topics Covered

Chapter 1

Introduction to Neuroscience

Introduction
What is Neuroscience?
History of Neuroscience
Who are Neuroscientists

Chapter 2

Brief Introduction to Neuroanatomy

Introduction to the Nervous System Commissures

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