#### PSYCHOLOGY 2301 STUDY GUIDE CHAPTER 2 The Biology of Mind and Consciousness

#### Why do psychologists study biology?

Psychologists study biology because they seek to understand how the brain functions in order to discover the behaviors of it.

#### Know the following terms:

Dendrite: branchy extensions of a neuron that send messages to the cell body

Neuron: nerve cells that are the building block of the nervous system

Neurotransmitters: chemical messengers that are pushed out of the axon terminal to go fill other cell receptors such as muscles and glands

Central nervous system: the brain and spinal cord

Sympathetic nervous system: autonomic nervous system; involuntary; increased response; "fight or flight" system

Parasympathetic nervous system: autonomic nervous system; involuntary; decreased response; "rest and digest" system

Endocrine system: system that helps the body maintain homeostasis by secreting hormones into the bloodstream

Brainstem: part of the CNS that connects the spinal cord to the brain; helps with automatic survival functions
Association areas: cerebral cortex areas that aids in higher mental functions such as remembering, thinking, speaking, and learning

Plasticity: the brain's ability to modify after damage by reorganizing or creating new pathways based on experience

Corpus callosum: connects the left and right hemispheres of the brain and carries signals between them

## Know the function of the amygdala, reticular formation, hippocampus, hypothalamus and cerebellum (also known as the "little brain")

- Amygdala: linked to emotion, especially fear
- Reticular Formation: controls stimulation
- Hippocampus: long term memory
- Hypothalamus: maintains temperature, eating, and drinking and aids in prevailing the endocrine system through the pituitary gland
- Cerebellum: processes sensory input, coordinates movement output and balance, and enables nonverbal learning and memory.

#### Be able to label a picture of a motor neuron.



- 1. Cell Body
- 2. Dendrites
- Axon
- 4. Neural Impulse
- 5. Myelin Sheath
- 6. Terminal Branches of Axon

5

# **Psychology 2301 Study Guide**

**Arthur James Wells** 

## **Psychology 2301 Study Guide:**

*Graduate Study in Psychology* ,2006 The Independent Study Catalog Peterson's Guides, Peterson's, 1992 The Independent Study Catalog National University Continuing Education Association (U.S.), 1989 A ^APractical Guide to Geriatric Neuropsychology Susan McPherson, Deborah Koltai, 2018-03-01 A Practical Guide to Geriatric Neuropsychology focuses on the skills required in testing and treating the older adult population taking a practical approach to treatment and intervention This book will be helpful for neuropsychologists interested in testing and providing recommendations for older adults and for psychologists interested in treating older adults Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1978 A Guide to the Study of the United States of America Library of Congress. General Reference and Bibliography Division, Oliver Hamilton Orr, 1976 U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974 Anxiety Disorders in Adults A Clinical Guide Vladan Starcevic, MD, PhD,2009-12-02 Using the practical yet comprehensive approach found in the first edition the author considers each anxiety disorder s clinical complexity while simultaneously using an integrative orientation toward finding clinical solutions. The author considers the presentation of each disorder as it occurs and is treated in the real world of clinical practice Finally the volume addresses effective therapeutic procedures and recommendations including pharmacological and psychological treatment approaches A true must read for any psychiatrist interested in anxiety disorders Peterson's Guide to Graduate Probrams in the **Humanities, Arts, and Social Science** Peterson's Guides, Inc,1992 The British National Bibliography Arthur James Wells, 1996

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