



Course Syllabus

Course Code	Course Title	ECTS Credits
PSYD-370	Physiological Psychology	10
Prerequisites	Department	Semester
PSYD-100 & BIOD-110	Social Sciences	Spring
Type of Course	Field	Language of Instruction
Compulsory	Psychology	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Maria Hadjimarkou	3 rd
Mode of Delivery	Work Placement	Corequisites
Distance Learning	None	None

Course Objectives:

The main objectives of the course are to:

- Introduce the students to the basic anatomy and structure of the central nervous system and the neurons that comprise it
- Review the process of neurotransmission and the role of the synapse
- Discuss the experimental approaches used in the area of neuroscience and biological psychology
- Introduce the students to the area of psychopharmacology and how substances can affect our physiology and lead to dependence
- Discuss brain areas and processes that control basic senses like vision and audition, and basic functions such as sleep and sexual behavior
- Explain the role of the nervous system in eating and drinking
- Demonstrate the underlying neural functioning which supports learning, memory and language
- Discuss how the brain may malfunction and result in various neurological or neurodegenerative disorders

Learning Outcomes:

After completion of the course students should be able to:

- Define the main areas of neuroscience as field of research and its contribution towards our understanding of human behavior
- Explain how the brain and nerve impulses are responsible for our everyday functioning as human beings

- Illustrate the methods used to study the brain and behaviors related to particular areas of the brain
- Examine the functioning and the areas of the brain that support senses such as vision, audition and other senses
- Determine the role of the brain in functions such as sleeping, eating and reproductive behaviors
- Explain how the brain supports functions such as language, learning, memory and emotion.
- Identify the major findings that underlie the development and pathology of neurological disorders
- Discuss the biological aspect of disorders such as depression and anxiety-related disorders

Course Content:

1. Introduction, The Brain and The Nervous System
2. Vision
3. Audition
4. Mechanical Senses
5. Chemical Senses
6. Movement
7. Temperature Regulation
8. Hunger and Thirst
9. Emotions and Sexual Behavior
10. Sleep and Biological Rhythms
11. Memory and Learning
12. Psychological and Psychiatric Disorders
13. Recap & Interactive Exploration and Study

Learning Activities and Teaching Methods:

Presentations, Assignments, videos

Assessment Methods:

Quizzes, Assignments, Final Exam

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Physiology of Behavior	Carlson, N.R.	Pearson	2013	ISBN: 9780205239399

Biological Psychology	Kalat, JW	Cengage Learning	2013	ISBN: 978-1-111-83952-9
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Recommended Textbooks / Reading:

Title	Author(s)	Publisher	Year	ISBN
Applied Biological Psychology	Getz, G.	Springer	2014	ISBN: 9780826109224