



## Course Syllabus

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS Credits</b>
PSY-230A	Brain and Behavior	6
<b>Prerequisites</b>	<b>Department</b>	<b>Semester</b>
PSY-110 & PSY-111, Introductory Biology	Social Sciences	Fall
<b>Type of Course</b>	<b>Field</b>	<b>Language of Instruction</b>
Required	Psychology	English
<b>Level of Course</b>	<b>Lecturer(s)</b>	<b>Year of Study</b>
1 <sup>st</sup> Cycle	Prof Marios Constantinou	2 <sup>nd</sup>
<b>Mode of Delivery</b>	<b>Work Placement</b>	<b>Co-requisites</b>
Face-to-Face	N/A	None

### Course Objectives:

The main objectives of the course are to:

- Review the basic neuroanatomy of the central nervous system and the various senses it controls.
- Examine the basic structure and function of a neuron
- Review the process of neurotransmission and the role of the synapse
- Review the experimental approaches used in the area of neuroscience and biological psychology in particular
- Examine how the brain develops and what changes occur during aging
- Discuss brain plasticity
- Discuss the connection between functions such as sleeping and waking, hunger and thirst
- Review the role of physiology in sexual behaviors

**Learning Outcomes:**

After completion of the course students are expected to be able to:

1. Discuss the history of neuroscience as a field
2. Appreciate the connections between philosophical concepts and brain functioning
3. Extrapolate how the nerve cells and nerve impulses are responsible for our everyday functioning as human beings
4. Appreciate the methods used to study the brain and behaviors related to particular areas of the brain
5. Identify major areas of the brain, the basic structure of a neuron
6. Appreciate how the brain develops from conception to adulthood
7. Appreciate the plasticity of the brain and what factors influence it
8. Evaluate the neuroanatomy of vision and the other senses
9. Discuss the brain's role in functions such as sleeping, eating and sexual behaviors

**Course Content:**

1. Introduction to the major issues in biological psychology
2. Nerve cells and nerve impulses
3. The synapse
4. Basic anatomy of the nervous system
5. Development and plasticity of the brain
6. Vision
7. Hearing, body sense and chemical senses
8. Sleeping and waking
9. Temperature control, thirst and hunger
10. Sexual behaviors

**Learning Activities and Teaching Methods:**

Lectures, Lab, Assignments, Videos, Bibliography

**Assessment Methods:**

Attendance & Participation; Midterm Exam, Paper, Final Exam

**Required Textbooks / Readings:**

<b>Title</b>	<b>Author(s)</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Biological Psychology (14 <sup>th</sup> Edition)	Kalat, James, W.	Cengage	2023	978-0357798126