

COURSE INFORMATION FORM	
Faculty / Institute	Faculty of Science and Literature
Department	Psychology
Course Code	PSİ 421
Course title	Cognitive Neuroscience
Instructional Language	English
Programs that can take the course	Psychology
Course Type	Elective
Course Level	Undergraduate
ECTS Credit	6
Prerequisites	PSİ 220 – Psychology of Learning
Course Content	This course focuses on the definition and scope of neuropsychology, the brain-behavior relationship, and the commonly used methods to evaluate the brain-behavior. The topics covered in the course also include the localization of the functions of the brain, the neural processes underlying cognitive processes such as language, memory, executive and spatial functions, and neuropsychological disorders.
The Aim of the Course	The aim of this course is to provide students an understanding of the neural basis of behavioral and cognitive psychological processes.
Course Outcomes	Students understand the biological basis of behavior and cognition.
Textbook and / or References	Swanson, L. W. (2012). <i>Brain architecture: understanding the basic plan</i> . Oxford University Press. Katz, P. (Ed.) (1999). <i>Beyond neurotransmission</i> . New York: Oxford University Press.

Evaluation Criteria	Percentage
Attendance	-
Lab	-
Application	-
Field Study	-
Homework	30% (Uploading course notes)
Presentations	-
Projects	-
Seminar	-
Midterm Exams	30%
Quiz	-
Final	40%

Total	100%
--------------	------

Course Plan	Subjects to Be Discussed
1. Week	Introduction
2. Week	Human connectome and functional connectivity
3. Week	Connectopathies
4. Week	Biological psychiatry
5. Week	Olaf Sporns
6. Week	Global structure-function architecture in the mammalian forebrain Larry Swanson
7. Week	Global structure-function architecture in the mammalian forebrain Larry Swanson
8. Week	Neuromodulation
9. Week	Neuromodulation
10. Week	Dopamine
11. Week	Addiction, social bonding, attention, motivation
12. Week	Brain-gut interactions