



Department of Physiology, Faculty of Science, Mahidol University

SCPS 461: Brain, mind and behavior

Academic Year 2022 (1st semester)

August 15, 2022 – October 31, 2022

Course Title	:	Brain, mind and behavior
Course Code	:	SCPS 461
Total credit	:	2 (2-0-4)
Prerequisite	:	None

Course Description

Physiological regulation of behavior, emotion, cognition, wakefulness and sleep, learning and memory; psychological disorders such as Autism, addiction, depression, schizophrenia

Course Objectives

After completing this course, students should be able to:

- 1) Explain basic principle of consciousness, cognition and behavior
- 2) Explain basic principle of learning and memory and related diseases
- 3) Explain basic principle of mood and thought disorders such as depression and schizophrenia
- 4) Explain basic principle of disorders, such as impulsive, compulsive

Course Overview

This course is designed to provide students with the fundamental concept and principles of various conditions mentioned above. For an assessment, students are tested through their ability to complete the assignments and their participation performance during lecture and group discussion sessions. Therefore, students are expected to actively participate in these activities both individually and team work.

Course Organization

The course was designed to use lecture as a main learning process. Lectures are primarily focused on the concepts/principles of brain mind and behavior. Each lecturer will provide a transcript of his/her lecture. When appropriate, the lecturer will assign the students to read the suggested textbooks and original articles.

Teaching Materials

1. Text-books
2. Print copies of power point presentation

Student Assessment

Assignments

- Reading assignment by instructors before the class
- Discussion topics, case study, original articles, review articles
- Writing assignment by instructors after the class

Assessment Criteria

Formative evaluation

- Feedback on writing assignment
- Feedback on group discussion and presentation

Summative evaluation

- Assignment 50%
- Attendance and Participation 50%

Student achievement will be graded according to the faculty and university standard using the symbols:

A, B⁺, B, C⁺, C, D⁺, D, and F.

Recommended Textbooks:

Stahl's Essential Psychopharmacology : Neuroscientific Basis and Practical Applications, Stephen M. Stahl

Course co-ordinator

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Lecturers

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Date	Time	Topic	Lecture
15 Aug	9:00-12:00	Course orientation	Dr. Witchuda
		Basic neuroanatomy for Mind and Behavior	Aj. Pongkun
22 Aug	9:00-12:00	Consciousness	Dr. Witchuda
29 Aug	9:00-12:00	Cognition and Behavior	Dr. Witchuda
5 Sep	9:00-12:00	Impulsive, compulsive	Dr. Nattinee
12 Sep	8:00-10:00	Thought and Mood disorders	Dr. Woraphat
19 Sep	8:00-10:00	Drug addiction	Dr. Woraphat
26 Sep	9:00-12:00	Dementia and Alzheimer's disease	Dr. Nithi
10 Oct	9:00-12:00	Headache	Dr. Chonlawan
17 Oct	9:00-12:00	<i>Special research topic I</i>	Dr. Pimonrat
31 Oct	9:00-12:00	<i>Special research topic II</i>	Dr. Kenjiro