

## 25911 - Basic biology II

### Información del Plan Docente

<b>Academic Year</b>	2018/19
<b>Subject</b>	25911 - Basic biology II
<b>Faculty / School</b>	301 - Facultad de Ciencias Sociales y Humanas
<b>Degree</b>	270 - Degree in Psychology
<b>ECTS</b>	6.0
<b>Year</b>	2
<b>Semester</b>	First Four-month period
<b>Subject Type</b>	Compulsory

### Module

#### 1.General information

##### 1.1.Aims of the course

##### 1.2.Context and importance of this course in the degree

##### 1.3.Recommendations to take this course

It is recommended that students have passed previous courses, particularly "Basic Biology I". In this course students acquire knowledge and skills about: the concept and methods of psychobiology; evolution and genetics; structure and function of cells of the nervous system; neuronal plasticity; neuroanatomy and nervous system development. In addition, students must have basic computer skills and know how to perform literature research.

It is essential to follow the course in the Moodle platform.

It is recommended to attend classes regularly.

#### 2.Learning goals

##### 2.1.Competences

##### 2.2.Learning goals

##### 2.3.Importance of learning goals

#### 3.Assessment (1st and 2nd call)

##### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

#### 4.Methodology, learning tasks, syllabus and resources

##### 4.1.Methodological overview

## 25911 - Basic biology II

The methodology followed in this course is oriented towards achievement of the learning objectives based on lectures and practice sessions.

### 4.2. Learning tasks

The course includes 60 ECTS organized according to:

- Lectures (3 ECTS: 30 hours)
- Practice sessions (3 ECTS: 30 hours)

### 4.3. Syllabus

The course will address the following topics:

- Neuroanatomy and functions of the cerebellum and basal ganglia.
- Neuroanatomy and functions of the diencephalon.
- Neuroanatomy and functions of the limbic system.
- Scope, method and techniques in Physiological Psychology.
- Sleep and biological rhythms.
- Ingestive behavior.
- The sexual and parental behavior.
- Emotion, aggressive behavior and stress.
- Learning and Memory.

### 4.4. Course planning and calendar

The overall planning of the course corresponds to the following student dedication: total hours: 150; attendance hours: 56; non-attendance hours of student work: 90; Assessment hours: 4.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the "Facultad de Ciencias Sociales y Humanas" website and Moodle (<http://fyl.unizar.es>, <https://moodle2.unizar.es>).

### 4.5. Bibliography and recommended resources

- Fundamentos biológicos de la conducta / Águeda del Abril Alonso... [et al.] . [2a. ed., 2a. reimp.] Madrid : Sanz y Torres, 2005
- Bear, Mark F.. Neurociencia : la exploración del cerebro / Mark F. Bear , Barry W. Connors, Michael A. Paradiso . 3ª ed. Barcelona : Wolters Kluwer Health España : Lippincott Williams & Wilkins, cop. 2008
- Carlson, N.R.. Fundamentos de fisiología de la conducta. - 10ª Madrid : Pearson Educación, 2010
- Collado, P. ... [el tal.]. Psicología Fisiológica. Madrid: Universidad Nacional de Educación a Distancia, 2017
- Hines, M. . Brain gender. Nueva York : Oxford University Press, 2004
- Pinel, John P. J.. Biopsicología / John P. J. Pinel ; Traducción y revisión técnica María José Ramos Platón ; Prólogo de Miguel Navarro García . - 6ª ed., última reimpr. Madrid [etc.] : Prentice Hall, 2009
- Rosenzweig, Mark R.. Psicobiología : una introducción a la neurociencia conductual, cognitiva y clínica / Mark R. Rosenzweig, S. Marc Breedlove y Neil V. Watson ; revisión científica a cargo de Ignacio Morgado Bernal ... (et al.) . - 2ª ed. act. Barcelona : Ariel, 2005
- Neurociencia / directores, Dale Purves ... [et al.] . - 3ª ed. Buenos Aires [etc.] : Médica Panamericana, D.L. 2010
- Alberstone, C.D. Anatomic basis of neurologic diagnosis / C.D. Alberstone... (et al). New York : Thieme, 2009
- Cardinali, Daniel P.. Neurociencia aplicada : sus fundamentos/ Daniel P. Cardinali . Buenos Aires [etc.]: Editorial Médica Panamericana, cop. 2007
- Clark, D.L.. El cerebro y la conducta Neuroanatomía para psicólogos / D.L. Clark. México : El Manual Moderno,

## 25911 - Basic biology II

2007

- Cummings, J.L.. Neuropsychiatry and behavioral neuroscience / J.L. Cummings. New York :Oxford University, 2008
- Diamond, M. C.. El cerebro humano : libro de trabajo / M. C. Diamond, A. B. Scheibel y L. M. Elson. . 1ª ed., 7ª reimp. Barcelona : Ariel, 2008
- Felten, David .L.. Netter : Atlas de neurociencia / David L. Felten, Anil N. Shetty ; ilustraciones por Frank H. Netter. 2ª ed. Barcelona [etc.] : Elsevier Masson, cop. 2010
- Neurobiology of disease [Recurso electrónico] / edited by Sid Gilman. . Burlington, Mass. : Elsevier Academic Press, c2007
- Principios de neurociencia / editado por Duane E. Haines ; colaboradores M. D. Ard ... [et al.] ; [revisores de la ed. española, Enrique Saldaña Fernández, Silvano de las Heras López-Negrete] . 2ª ed., [reimpr.] Madrid [etc.] : Elsevier Science, D.L. 2009
- Kandel, Eric R.. Neurociencia y conducta / Eric R. Kandel, James H. Schwartz, Thomas M. Jessell ; traducción Pilar Herreros de Tejada ... [et al.] ; revisión técnica y coordinación Carlos Fernández Frías . Reimp. Madrid [etc.] : Prentice Hall, 2008
- Kolb, Bryan. Neuropsicología humana / Bryan Kolb, Ian Q. Whishaw . 5ª ed. , [1ª ed., 1ª reimpr.] Madrid [etc.] : Panamericana, 2008
- Nolte, John. El encéfalo humano en fotografías y esquemas / John Nolte , Jay B. Angevine . 3ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier, cop. 2009