

**COURSE DATA****Data Subject**

<b>Code</b>	34326
<b>Name</b>	Biophysics and biochemistry
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	6.0
<b>Academic year</b>	2023 - 2024

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period</b>	<b>year</b>
1208 - Degree in Podiatry	Faculty of Nursing and Chiropody	1	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1208 - Degree in Podiatry	4 - Biochemistry	Basic Training

**Coordination**

<b>Name</b>	<b>Department</b>
CABALLERO LUNA, OSCAR	125 - Nursing
GONZALEZ PEÑA, ROLANDO DE JESUS	190 - Physiology

**SUMMARY**

Study of the elementary conditions of the phenomena of the life and the laws and basic beginning of the Biophysics and of the Biochemistry in order to understand the human body.

**PREVIOUS KNOWLEDGE****Relationship to other subjects of the same degree**

There are no specified enrollment restrictions with other subjects of the curriculum.

**Other requirements**

Para garantizar el correcto aprendizaje de los contenidos de la asignatura de Bioquímica y Biofísica, el alumnado tiene que contar con conocimientos previos de Química, Física y Biología básicas. Se recomienda poseer conocimientos de herramientas informáticas habituales y de inglés.

**COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)****1208 - Degree in Podiatry**

- Know the bases of biophysics, physiology and biochemistry related to the human body. Immediate principles. Biochemistry and biophysics of membranes, muscles and nerves. Acquire knowledge of the functions and regulation of the different organs and systems of the human body.

**LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)****English version is not available****WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	40,00	100
Classroom practices	10,00	100
Laboratory practices	8,00	100
Tutorials	2,00	100
Development of group work	5,00	0
Study and independent work	35,00	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	30,00	0
Preparing lectures	10,00	0
Resolution of case studies	5,00	0
<b>TOTAL</b>	<b>150,00</b>	

**TEACHING METHODOLOGY****English version is not available**



## EVALUATION

English version is not available

## REFERENCES

### Basic

- 1. Catalá J. (1978). Física. Madrid.
- 2. Trudy McKee y James R McKee. (2009). Bioquímica. Las bases moleculares de la vida. México D.F.: McGraw-Hill/Interamericana.
- 3. Frumento A. (1995). Biofísica. Barcelona: Mosby/Doyma.

### Additional

- 1. Stryer, L. (1995). Bioquímica. Barcelona: Reverté.
- 2. Nelson D.L., Cox M.M. (2007). Lehninger. Principios de Bioquímica. OMEGA, 2007.
- 3. Aurengo A, Petitclerc T. (2008). Biofísica. Madrid: McGraw-Hill/Interamericana.
- 4. Nájera A, Arribas E, Navarro JD, Jiménez L. Fundamentos de Física para Profesionales de la Salud. Elsevier España, Barcelona, 2015. ISBN 978-84-9022-859-3. (Disponible en formato electrónico en la Biblioteca UV).