



# UNIVERSIDAD DE CASTILLA - LA MANCHA

## GUÍA DOCENTE

### 1. General information

Course: BIOCHEMISTRY

Type: BASIC

Degree: 391 - UNDERGRADUATE DEGREE PROGRAMME IN NURSING (TA)

Center: 16 - FACULTY OF SCIENCES OF THE HEALTH OF TALAVERA

Year: 1

Main language: Spanish

Use of additional languages:

Web site:

Code: 15302

ECTS credits: 6

Academic year: 2022-23

Group(s): 60 61

Duration: First quarter

Second language: English

English Friendly: Y

Bilingual: N

Lecturer: ANTONIO VIÑUELA SANCHEZ - Group(s): 60 61

Building/Office	Department	Phone number	Email	Office hours
Fac. Ciencias Salud/ despacho 1.6	ENFERMERÍA, FISIOTERAPIA Y TERAPIA OCUP.	ext.5616	Antonio.Vinuela@uclm.es	

### 2. Pre-Requisites

Not established

### 3. Justification in the curriculum, relation to other subjects and to the profession

Not established

### 4. Degree competences achieved in this course

#### Course competences

Code	Description
A01	To know and identify the structure and function of the human body. To understand the molecular and physiological bases of cells and tissues, as well as the psychological dimension of the human being.
A06	To apply the information and communication technologies in systems of health care.
A07	To know the physiopathological processes, their manifestations and the risk factors that determine the health and disease states in the different stages of the life cycle.
B02	To master the Information and Communication Technologies (ICT).
B03	To demonstrate a correct oral and written communication.
C01	Learning to learn.
C04	To work autonomously with responsibility and initiative.
C05	To work in a team in a collaborative way and shared responsibility.
C06	To communicate information, ideas, problems and solutions clearly and effectively in a specific public or technical field.

### 5. Objectives or Learning Outcomes

#### Course learning outcomes

Description

Identification of the fundamental structures and properties of biomolecules.

Knowledge of the structure and function of the human body.

Relevant knowledge of basic and life sciences and ability to apply it to care.

Ability to apply problem solving and decision-making.

### 6. Units / Contents

Unit 1:

Unit 2:

Unit 3:

Unit 4:

Unit 5:

Unit 6:

Unit 7:

### 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	A01 A07 B03 C01 C06	1.36	34	N	-	
Workshops or seminars [ON-SITE]	Problem solving and exercises	A01 A07 C01 C04 C05 C06	0.44	11	Y	N	
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	A01 A06 A07 B02 B03 C01 C04 C05 C06	0.28	7	Y	N	
Group tutoring sessions [ON-SITE]	Problem solving and exercises	A01 A07 B03 C01 C05 C06	0.12	3	N	-	

Progress test [ON-SITE]	Assessment tests	A01 A07 B03 C01 C06	0.08	2	Y	N	
Writing of reports or projects [OFF-SITE]	Self-study	A01 A06 A07 B02 B03 C01 C04 C05 C06	0.48	12	N	-	
On-line debates and forums [OFF-SITE]	Self-study	A01 A06 A07 B02 B03 C01 C04 C05 C06	0.24	6	N	-	
Final test [ON-SITE]	Assessment tests	A01 A07 B03 C01 C06	0.12	3	Y	N	
Study and Exam Preparation [OFF-SITE]	Self-study	A01 A06 A07 B02 B03 C01 C04 C05 C06	2.8	70	N	-	
Other off-site activity [OFF-SITE]	Self-study	A01 A06 A07 B02 B03 C01 C04 C05 C06	0.08	2	N	-	
<b>Total:</b>			<b>6</b>	<b>150</b>			
<b>Total credits of in-class work: 2.4</b>			<b>Total class time hours: 60</b>				
<b>Total credits of out of class work: 3.6</b>			<b>Total hours of out of class work: 90</b>				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Theoretical papers assessment	5.00%	0.00%	
Laboratory sessions	10.00%	0.00%	
Assessment of problem solving and/or case studies	15.00%	0.00%	
Progress Tests	35.00%	0.00%	
Final test	35.00%	100.00%	
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
<b>Unit 1 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	1
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1
Group tutoring sessions [PRESENCIAL][Problem solving and exercises]	3
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
<b>Unit 2 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	1
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1
Writing of reports or projects [AUTÓNOMA][Self-study]	3
On-line debates and forums [AUTÓNOMA][Self-study]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
<b>Unit 3 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	1
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1
Writing of reports or projects [AUTÓNOMA][Self-study]	3
On-line debates and forums [AUTÓNOMA][Self-study]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
<b>Unit 4 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	2
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1
Progress test [PRESENCIAL][Assessment tests]	2
On-line debates and forums [AUTÓNOMA][Self-study]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
<b>Unit 5 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	2
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1

Writing of reports or projects [AUTÓNOMA][Self-study]	3
On-line debates and forums [AUTÓNOMA][Self-study]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
<b>Unit 6 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	2
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1
Writing of reports or projects [AUTÓNOMA][Self-study]	3
On-line debates and forums [AUTÓNOMA][Self-study]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
<b>Unit 7 (de 7):</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	2
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	1
On-line debates and forums [AUTÓNOMA][Self-study]	1
Final test [PRESENCIAL][Assessment tests]	3
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
Other off-site activity [AUTÓNOMA][Self-study]	2
<b>Global activity</b>	
<b>Activities</b>	<b>hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	34
Workshops or seminars [PRESENCIAL][Problem solving and exercises]	11
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	7
Group tutoring sessions [PRESENCIAL][Problem solving and exercises]	3
Progress test [PRESENCIAL][Assessment tests]	2
Writing of reports or projects [AUTÓNOMA][Self-study]	12
On-line debates and forums [AUTÓNOMA][Self-study]	6
Final test [PRESENCIAL][Assessment tests]	3
Study and Exam Preparation [AUTÓNOMA][Self-study]	70
Other off-site activity [AUTÓNOMA][Self-study]	2
<b>Total horas: 150</b>	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Baynes, John W.	Bioquímica médica	Elsevier	Barcelona	978-84-9022-844-9	2019	Lozano JA; Galindo JD, GarcíaBorrón JC, Martínez JH, Peñafiel R, Solano F
Stryer L	Bioquímica	Reverte, 6ª edición	Barcelona	978-84-291-7600-1	2015	Bioquímica y biología molecular para las ciencias de la salud Interamericana.McGrawHill. Madrid 84-486-0642-6 2005
Lehninger, Albert L.	Principios de bioquímica /	Omega,		978-84-282-1603-6	2015	Devlin, Thomas M.
Herrera E	Bioquímica Básica	Elsevier	Madrid	84-7615-778-9	2014	Bioquímica: libro de texto con aplicaciones clínicas Reverté Madrid 978-84-291-7208-9 2015
Devlin, Thomas M.	Bioquímica: libro de texto con aplicaciones clínicas		Madrid	978-84-291-7208-9	2015	
Lozano JA; Galindo JD, GarcíaBorrón JC, Martínez JH, Peñafiel R, Solano F	Bioquímica y biología molecular para las ciencias de la salud	Interamericana.McGrawHill. Madrid		84-486-0642-6	2005	