UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: BIOCHEMISTRY
Type: BASIC
Degree: 387 - UNDERGRADUATE DEGREE PROGRAMME IN NURSING (TO)
Center: 109 - FACULTAD DE FISIOTERAPIA Y ENFERMERÍA
Year: 1
Main language: Spanish
Use of additional languages:
Web site:

Code: 15302
ECTS credits: 6
Academic year: 2023-24
Group(s): 41
Duration: First semester
Second language: English
English Friendly: Y
Bilingual: N

Lecturer: **CARLOS ALBERTO CASTILLO SARMIENTO** - Group(s): **41**

Building/Office	Department	Phone number	Email	Office hours
SABATINI: 1.11	ENFERMERÍA, FISIOTERAPIA Y TERAPIA OCUP.	5670	carlosa.castillo@uclm.es	

Lecturer: **ANDREA DEL SAZ LARA** - Group(s): **41**

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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

Ability to apply problem solving and decision-making.

Knowledge of the structure and function of the human body.

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

Identification of the fundamental structures and properties of biomolecules.

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 (only degrees before RD	ECTS	Hours	As	Com	Description

		822/2021)					
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 B02 B03 C01 C04 C05 C06	0.44	11	Y	N	
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	A01 A06 A07 B02 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 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	-	
Other off-site activity [OFF-SITE]	Reading and Analysis of Reviews and Articles	A01 A06 A07 B02 B03 C01 C04 C05 C06	0.08	2	N	-	
Study and Exam Preparation [OFF-SITE]	Self-study	A01 A06 A07 B02 B03 C01 C04 C05 C06	2.8	70	N	-	
Final test [ON-SITE]	Assessment tests	A01 A07 B03 C01 C06	0.12	3	Y	N	
		Total:	**6**	**150**			
		Total credits of in-class work: 2.4					**Total class time hours: 60**
		Total credits of out of class work: 3.6					**Total hours of out of class work: 90**

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%	
Total:	**100.00%**	**100.00%**	

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**

Unit 1 (de 7):

Activities	**Hours**
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

Group 41:

Initial date: 11-09-2023 **End date:** 15-09-2023

Unit 2 (de 7):

Activities	**Hours**
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

Group 41:

Initial date: 18-09-2023 **End date:** 29-09-2023

Unit 3 (de 7):

Activities	**Hours**
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

Group 41:

Initial date: 02-10-2023	**End date:** 13-10-2023
Unit 4 (de 7):	
Activities	**Hours**
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
Group 41:	
Initial date: 17-10-2023	**End date:** 27-10-2023
Unit 5 (de 7):	
Activities	**Hours**
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
Group 41:	
Initial date: 30-10-2023	**End date:** 10-11-2023
Unit 6 (de 7):	
Activities	**Hours**
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
Group 41:	
Initial date: 14-11-2023	**End date:** 24-11-2023
Unit 7 (de 7):	
Activities	**Hours**
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
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
Final test [PRESENCIAL][Assessment tests]	3
Group 41:	
Initial date: 28-11-2023	**End date:** 22-12-2023
Global activity	
Activities	**hours**
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
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	70
Final test [PRESENCIAL][Assessment tests]	3
Total horas: 150	

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Baynes, John W.	Bioquímica médica	Elsevier España	Barcelona	978-84-9022-844-9	2019	
Lehninger, Albert L.	Principios de bioquímica	Omega	Barcelona	978-84-282-1410-0	2018	
Devlin, Thomas M.	Bioquímica: libro de texto con aplicaciones clínicas	Reverté	Madrid	978-84-291-7208-9	2015	
Stryer, Lubert	Bioquímica	Reverté	Barcelona	978-84-291-7600-1	2015	
Lozano y col.	Bioquímica y biología molecular para ciencias de la salud	Mac Graw-Hill Interamericana	Madrid	84-486-0642-6	2005	
Herrera, Emilio	Bioquímica básica: base molecular de los procesos fisiológicos	Elsevier	Madrid	84-7615-778-9	2014	