



## 1. General information

Course: MICROBIOLOGY AND PUBLIC HEALTH  
Type: BASIC  
Degree: 399 - PODIATRY DEGREE  
Center: 16 - FACULTY OF SCIENCES OF THE HEALTH OF TALAVERA  
Year: 1

Main language: Spanish

Use of additional languages:  
Web site:

Code: 32503  
ECTS credits: 6  
Academic year: 2023-24  
Group(s): 60  
Duration: First semester  
Second language: English  
English Friendly: Y  
Bilingual: N

Lecturer: <b>ALBERTO ALDANA CABALLERO</b> - Group(s): <b>60</b>				
Building/Office	Department	Phone number	Email	Office hours
Facultad de Ciencias de la Salud Despacho 2.7	ENFERMERÍA, FISIOTERAPIA Y TERAPIA OCUP.	926051361	Alberto.Aldana@uclm.es	
Lecturer: <b>IRIANA GALAN ARRIERO</b> - Group(s): <b>60</b>				
Building/Office	Department	Phone number	Email	Office hours
Facultad de Ciencias de la Salud Despacho 2.8	CIENCIAS MEDICAS	926051571	iriana.Galan@uclm.es	Thursday, from 9:00h to 15:00 h. It is recommended to confirm in advance via email.
Lecturer: <b>JUAN CARLOS MONTERO RUBIO</b> - Group(s): <b>60</b>				
Building/Office	Department	Phone number	Email	Office hours
	CIENCIAS MÉDICAS		JuanCarlos.Montero@uclm.es	

## 2. Pre-Requisites

Not established

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

This subject aims to train the student in the consideration of person, family and community as a unit of care, taking into account social, cultural and psychological factors that affect the health status of the community members. In addition, to train the student to assess

The subject allows the student to acquire skills in the field of clinical practice in all the spheres related to health promotion, with actions in disease prevention, in addition to considering community health care (declaration of the WHO in Alma-Ata). The course also la

## 4. Degree competences achieved in this course

## Course competences

Code	Description
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB02	Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area.
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CB05	Have developed the necessary learning abilities to carry on studying autonomously
CE08	Know the Spanish Health System and the basic aspects related to the management of health services, mainly those related to podiatric care and rehabilitation
CE09	Acquire the concept of health and disease. Know the determinants of health in the population. Develop the factors that influence the health-disease phenomenon. Design of prevention protocols and their practical application. Public health. Concept, method and use of epidemiology.
CE21	Know and apply prevention strategies and health education in podiatry. Occupational health podiatry. Prevention of occupational risks in podiatry. Sanitation and disinfection. Podiatric health education methods. Design and evaluate health education programs. Preventive chiropody Anthropology of Health and Disease
CT01	Know a second foreign language.
CT02	Use correct oral and written communication.
GC08	Acquire work skills in educational and research environments, health care, as well as in unprofessional and multi-professional teams. Advise in the development and implementation of care and education policies on topics related to prevention and podiatric assistance.

## 5. Objectives or Learning Outcomes

## Course learning outcomes

## Description

To analyze the statistical and qualitative information referring to population-based studies, identifying the possible causes of public health problems.  
Application of quantitative and qualitative methods and procedures necessary to identify the most relevant health problems in a community.  
Promotion and facilitation of community participation in the health-disease process.  
Demonstration of relevant knowledge in demography, statistics, epidemiology, decision analysis, health economics, etc. : to apply to problem solving and health decision making.  
Identification of the determining factors of the level of collective health to meet health needs in a sociocultural, economic and political context.  
Understanding public health problems from intersubjectivity, multiculturalism and interdisciplinarity.  
Effective communication of health messages to the individual, family and community.  
Understanding the functions, activities and cooperative attitude that the health professional has to develop in a healthcare team.  
Health promotion and prevention, and community members wellbeing.  
Accepting responsibility for their own learning and professional development.  
Description of the primary level of health fundamentals and the activities to be developed to provide integral healthcare to the individual, family and community.  
To use adequate oral and written language that favors communication both with the user and with the rest of the team.

## 6. Units / Contents

Unit 1: MICROBIOLOGY OVERVIEW: BACTERIOLOGY, PARASITOLOGY AND MYCOLOGY. INFECTION AND DIAGNOSIS.

Unit 2: VIROLOGY AND IMMUNOLOGY OVERVIEW: VACCINES.

Unit 3: HUMAN ECOLOGY, HEALTH AND DISEASES.CONDITIONING FACTORS.

Unit 4: DEVELOPMENT AREAS OF PUBLIC HEALTH IN HEALTH SCIENCES.

Unit 5: INTRODUCTION TO HEALTH DEMOGRAPHY.

## 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	1.6	40	N		The lecture-based method (using multimedia resources) will be used to explain the contents included in the program. Recoverable but not repeatable.
Workshops or seminars [ON-SITE]	Workshops and Seminars	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	0.32	8	Y	Y	Laboratory practices, workshops or seminars and case method teaching. Recoverable but not repeatable.
Final test [ON-SITE]	Assessment tests	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	0.16	4	Y	Y	The final exam will consist of multiple choice questions. Recoverable but not repeatable.
Group tutoring sessions [ON-SITE]	Guided or supervised work	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	0.16	4	Y	Y	Group mentoring, developed on-site, will be addressed to the resolution of doubts and difficulties, both of the theoretical issues as for the practical aspects. Recoverable but not repeatable.
Project or Topic Presentations [ON-SITE]	Lectures	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	0.16	4	Y	Y	Group works will be presented in the classroom by means of audiovisual resources. Recoverable but not repeatable.
Study and Exam Preparation [OFF-SITE]	Self-study	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	2.4	60	N		Evaluation tests will be prepared by studying the contents covered in class as well as by consulting and searching for complementary information with the help of the recommended bibliography.
Analysis of articles and reviews [OFF-SITE]	Reading and Analysis of Reviews and Articles	CB01 CB04 CT01 CT02	0.16	4	Y	N	Reading scientific articles and preparation of book and book chapters summaries are stipulated as autonomous work of students. This work will be evaluated with the preparation of reports or works by the students. Each student will be able to develop this training activity in accordance with their own criteria, although it is recommended a constant reading throughout the recommended bibliography by the professor. Recoverable but not repeatable.
On-line debates and forums [OFF-SITE]	Online Forums	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	0.16	4	Y	N	Forums and online debates aimed at actively exchanging information as well as resolving doubts by classmates will be organized with the teacher's supervision. Recoverable but not repeatable.
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	CB01 CB02 CB03 CB04 CB05 CE08 CE09 CT01 CT02 GC08	0.48	12	Y	Y	Problem solving related to the contents to the course. Recoverable but not repeatable.
		CB01 CB02 CB03 CB04 CB05 CE08 CE09					Reports or works will be prepared on the contents indicated

Writing of reports or projects [OFF-SITE]	Self-study	ICT01 CT02 GC08	Total:	0.4	10	✓	Nb by the professor. Recoverable but not repeatable
				6	150		
Total credits of in-class work: 2.88				Total class time hours: 72			
Total credits of out of class work: 3.12				Total hours of out of class work: 78			

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
Oral presentations assessment	10.00%	0.00%	The oral presentation of the group works carried out in the classroom will be valued. The professor will be able to ask questions at the end of the presentation.
Final test	60.00%	70.00%	The final test will be a questionnaire and the formula used to establish the score is as follows: Final test score = ((Correct- (Errors / 3)) / (Total questions)) x 10.
Projects	10.00%	0.00%	The evaluation of the activities related to cases or topics related to the program will be evaluated through the presentation of works that encompass the contents included in the course. These works may be requested by the teacher as part of a final portfolio.
Assessment of problem solving and/or case studies	10.00%	30.00%	The resolution of problems and cases will be evaluated by means of on-line questionnaires.
Assessment of active participation	10.00%	0.00%	Assessment of student participation. The student must attend all scheduled group activities (seminars, workshops, practices, etc...)
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).

#### Evaluation criteria for the final exam:

##### Continuous assessment:

The current rating system will be applied; Currently, UCLM student evaluation regulations, approved on May 23th, 2022.

The Global evaluation will be carried out based on the weighted average of the evaluation systems and the student must achieve 40% of the final test.

##### Non-continuous evaluation:

The current rating system will be applied at all times; Currently, UCLM student evaluation regulations, approved on May 23 th, 2022.

All the competences of the assessable training activities will be evaluated through a final test. That is, an alternative test to the continuous assessment that allows to evaluate the acquisition of the same competences of the training activities developed in the continuous assessment option. The student must achieve a 50% of the test.

#### Specifications for the resit/retake exam:

The assessment of the Work, oral presentation of topics, resolution of problems or cases and the Assessment of participation with advantage, which have been passed by the student will be preserved up to a maximum of two academic courses from the current course, as long as the training activities do not change.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
<b>General comments about the planning:</b> The temporal distribution of the different training activities during the course will be adapted to the needs of the students and may vary depending on the degree of their use and the criteria of the teachers involved in teaching the subject. The official academic calendar will be followed all the time.	
<b>Unit 1 (de 5): MICROBIOLOGY OVERVIEW: BACTERIOLOGY, PARASITOLOGY AND MYCOLOGY. INFECTION AND DIAGNOSIS.</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1.6
Final test [PRESENCIAL][Assessment tests]	.8
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	.8
Project or Topic Presentations [PRESENCIAL][Lectures]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Analysis of articles and reviews [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	.8
On-line debates and forums [AUTÓNOMA][Online Forums]	.8
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2.4
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Group 60:	
Initial date: 12-09-2023	End date: 12-10-2023
<b>Unit 2 (de 5): VIROLOGY AND IMMUNOLOGY OVERVIEW: VACCINES.</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1.6
Final test [PRESENCIAL][Assessment tests]	.8
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	.8
Project or Topic Presentations [PRESENCIAL][Lectures]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Analysis of articles and reviews [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	.8
On-line debates and forums [AUTÓNOMA][Online Forums]	.8
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2.4
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Group 60:	
Initial date: 13-10-2023	End date: 31-10-2023
<b>Unit 3 (de 5): HUMAN ECOLOGY, HEALTH AND DISEASES.CONDITIONING FACTORS.</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1.6
Final test [PRESENCIAL][Assessment tests]	.8
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	.8
Project or Topic Presentations [PRESENCIAL][Lectures]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Analysis of articles and reviews [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	.8
On-line debates and forums [AUTÓNOMA][Online Forums]	.8
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2.4
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Group 60:	
Initial date: 01-11-2023	End date: 16-11-2023
<b>Unit 4 (de 5): DEVELOPMENT AREAS OF PUBLIC HEALTH IN HEALTH SCIENCES.</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1.6
Final test [PRESENCIAL][Assessment tests]	.8
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	.8
Project or Topic Presentations [PRESENCIAL][Lectures]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Analysis of articles and reviews [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	.8
On-line debates and forums [AUTÓNOMA][Online Forums]	.8
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2.4
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Group 60:	
Initial date: 17-11-2022	End date: 08-12-2022
<b>Unit 5 (de 5): INTRODUCTION TO HEALTH DEMOGRAPHY.</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1.6
Final test [PRESENCIAL][Assessment tests]	.8
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	.8
Project or Topic Presentations [PRESENCIAL][Lectures]	.8
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Analysis of articles and reviews [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	.8
On-line debates and forums [AUTÓNOMA][Online Forums]	.8
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2.4
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Group 60:	
Initial date: 09-12-2022	End date: 22-12-2023
<b>Global activity</b>	
<b>Activities</b>	<b>hours</b>
Final test [PRESENCIAL][Assessment tests]	4
Writing of reports or projects [AUTÓNOMA][Self-study]	10

Class Attendance (theory) [PRESENCIAL][Lectures]	40
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	4
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	8
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	12
Analysis of articles and reviews [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	4
Study and Exam Preparation [AUTÓNOMA][Self-study]	60
Project or Topic Presentations [PRESENCIAL][Lectures]	4
On-line debates and forums [AUTÓNOMA][Online Forums]	4
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	City	ISBN	Year	Description
KENNETH RYAN, GEORGE RAY	SHERRIS MEDICAL MICROBIOLOGY	MCGRAW-HILL			2017	
MURRAY P., ROSSENTHAL K., PFALLER, M.	MEDICAL MICROBIOLOGY. 8ªED	ELSEVIER-MOSBY		9788491130765	2017	
JUAN JOSE PICAZO DE LA GARZA, JOSE PRIETO	COMPENDIO DE MICROBIOLOGÍA 2ªED	S.A. ELSEVIER ESPAÑA	ESPAÑA	9788490229217	2016	
G. PRATS	MICROBIOLOGIA Y PARASITOLOGIA MEDICAS	PANAMERICANA		9788498354294	2012	
MANUEL DE LA ROSA	MICROBIOLOGIA EN CIENCIAS DE LA SALUD: CONCEPTOS Y APLICACIONES 3ªED	S.A. ELSEVIER ESPAÑA	ESPAÑA	9788480866927	2011	
MIGUEL ANGEL MARTINEZ GONZALEZ	CONCEPTOS DE SALUD PUBLICA Y ESTRATEGIAS PREVENTIVAS + ACCESO ON LINE	S.A. ELSEVIER ESPAÑA	ESPAÑA	9788480869041	2013	
A. MARTIN ZURRO	ATENCIÓN FAMILIAR Y SALUD COMUNITARIA	S.A. ELSEVIER ESPAÑA	ESPAÑA	9788480867283	2011	