



## Information about the subject

**Degree:** Bachelor of Science Degree in Medicine

**Faculty:** Faculty of Medicine and Health Sciences

**Code:** 340407 **Name:** Preventive Medicine and Public Health

**Credits:** 6,00 **ECTS Year:** 4 **Semester:** 2

**Module:** Social Medicine, Communication Skills and Initiation to Research

**Subject Matter:** Social Medicine **Type:** Compulsory

**Field of knowledge:** Health Science

**Department:** -

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** Spanish

### Lecturer/-s:

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## Module organization

### Social Medicine, Communication Skills and Initiation to Research

Subject Matter	ECTS	Subject	ECTS	Year/semester
Communication Skills	3,00	Laboratory of Clinical Interview and Communication Skills	3,00	3/1
Social Medicine	15,00	Family and Community Medicine	3,00	5/2
		Legal Medicine and Toxicology	6,00	5/1
		Preventive Medicine and Public Health	6,00	4/2
Research inicialization	9,00	History of Medical Science, and Medical Documentation and Terminology	6,00	2/1
		Laboratory of Research Methodology	3,00	4/1
Statistics	6,00	Biostatistics	6,00	1/2
Ethics and professional issues	12,00	Bioethics and Medical Deontology	6,00	4/1
		Science, Reason and Faith	6,00	2/2
Health management	3,00	Healthcare Management	3,00	4/1
English	6,00	Medical English	6,00	1/1
Ethics	6,00	Ethics and Social Morality	6,00	2/1
Antropology	6,00	Medical Anthropology	6,00	1/1



## Recommended knowledge

Basics on Biostatistics and Epidemiology.

## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Know the legal basis of the exercise of the medical profession.
- R2 Informed consent. Confidentiality.
- R3 Recognize, diagnose and guide the management of physical and mental harm. Social and legal implications of death.
- R4 Know and recognize the normal evolution of the corpse. Postmortem diagnosis.
- R5 Basics of medical criminology. Be able to write medical-legal documents.
- R6 Recognize the need to maintain professional competence.
- R7 Knowing how to approach professional practice while respecting the patient's autonomy, beliefs and culture.
- R8 Know the principles and apply the methods of preventive medicine and public health.
- R9 Risk factors and disease prevention.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Students have demonstrated to possess and understand knowledge in a study area that starts from the base of the general secondary education, and is usually found at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the forefront of their field of study				X
CB2	Students know how to apply their knowledge to their job or vocation in a professional way and possess the competences that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study				X
CB3	Students have the ability to collect and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific or ethical topics				X
CB4	Students can pass on information, ideas, problems and solutions to both a specialized and non-specialized audience				X
CB5	Students have developed the learning skills needed to undertake further studies with a high degree of autonomy				X
GENERAL		Weighting			
		1	2	3	4
CG1	Recognizing the essential elements of the medical profession, including ethical principles, legal responsibilities, and patient-centered professional exercise			X	
CG2	Understanding the importance of such principles for the benefit of the patient, society and profession, with special attention to professional secrecy			X	
CG3	Knowing how to apply the principle of social justice to professional practice and understanding the ethical implications of health in a changing global context		X		



CG4	Developing professional practice with respect to patient autonomy, beliefs and culture		X	
CG5	Recognizing the limitations themselves and the need to maintain and update their professional competence, giving special importance to the autonomous learning of new knowledge and techniques and to the motivation for quality			X
CG6	Developing professional practice with respect for other health professionals, acquiring teamwork skills			X
CG7	Understanding and recognizing the normal structure and function of the human body, at the molecular, cellular, tissue, organic and systems levels, at the different stages of life and in both sexes	X		
CG8	Recognize the basis of normal human behavior and its disfunctions	X		
CG9	Understanding and recognizing the effects, mechanisms and manifestations of the disease on the structure and function of the human body		X	
CG10	Understanding and recognizing the causative agents and risk factors that determine health and disease development			X
CG11	Understanding and recognizing the effects of growth, development and aging on the individual and their social environment		X	
CG12	Understanding the basis of action, indications and efficacy of therapeutic interventions, based on available scientific evidence		X	
CG13	Getting and writing a medical history containing all relevant information			X
CG14	Perform a physical exam and mental assessment	X		
CG15	Having the ability to make an initial diagnostic judgment and establish a reasoned diagnostic strategy	X		
CG16	Recognizing and treating life-threatening situations and those that require immediate attention	X		
CG17	Establishing all diagnosis, prognosis and treatment, applying principles based on the best possible information and clinical safety	X		
CG18	Indicating the most appropriate therapeutics of the most prevalent and chronic acute processes, as well as terminally ill patients	X		
CG19	Raising and proposing appropriate preventive measures for each clinical situation		X	



## Year 2023/2024

### 340407 - Preventive Medicine and Public Health

Population determinants, both genetic and biologic, environmental, social, economic, and other issues			X
Prevention and protection against illness, injury and maintenance and promotion, both individual and community			X
Interdisciplinary multi-professional teams, taking the lead in the provision of health care, and in health policy development			X
Epidemiological data and assess trends and inform decision making			X
International health organizations and the relationships of different health systems			X
National Health System and health services			X
Information and communication technologies in preventive and research activities			X
Records with patient information for further analysis and confidentiality	X		



SPECIFIC	Weighting			
	1	2	3	4
CE7 Knowing the legal basis of the exercise of the medical profession. Informed consent. Confidentiality		X		
CE8 Recognizing, diagnosing and guiding the management of physical and mental harm. Social and legal implications of death		X		
CE9 Knowing and recognizing the normal evolution of the corpse. Postmortem diagnosis. Basics of medical criminology	X			
CE10 Being able to write medical-legal documents	X			
CE13 Recognizing the need to maintain professional competence			X	
CE14 Knowing how to approach professional practice while respecting the patient's autonomy, beliefs and culture				X
CE15 Knowing the principles and applying the methods of preventive medicine and public health. Risk factors and disease prevention				X
CE16 Recognizing the determinants of population health. Health indicators. Planning, programming and evaluation of health programs. Prevention and protection against diseases, injuries and accidents. Assessment of quality of care and patient safety strategies. Vaccines. Epidemiology. Demographics				X
CE17 Knowing health planning and administration at the global, European, Spanish and regional levels				X
CE18 Knowing the economic and social implications of medical action, considering criteria of effectiveness and efficiency. Health and environment. Food safety. Occupational health				X
CE19 Knowing, critically valuing and knowing how to use technologies and sources of clinical and biomedical information, to obtain, organize, interpret and communicate clinical, scientific and health information				X
CE22 Knowing the history of health and disease			X	
CE23 Knowing the existence and principles of alternative medicines	X			
CE31 Writing stories, reports, instructions and other records, understandably to patients, family members and other professionals	X			



TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Analytical and synthesis capacity				X
CT2	Planification and organization capacity				X
CT3	Oral and written communication in mother language				X
CT5	Informatics knowledge		X		
CT6	Manage information capacity				X
CT7	Solving problems				X
CT9	Team work			X	
CT12	Interpersonal relationship skills		X		
CT13	Recognition of diversity and multiculturalism			X	
CT14	Critical reasoning				X
CT15	Ethical commitment				X
CT16	Individual learning				X
CT17	New situations' adaptation			X	
CT22	Motivation for quality			X	
CT23	Sensitivity to environmental and social health issues				X
CT27	Ability to express one's feelings			X	
CT30	Social commitment			X	
CT31	Show sensitivity to personal, environmental and institutional injustices			X	





CT33 Knowing how to get relevant information from personal interviews

x



## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R7, R9	30,00%	Open questions
R1, R2, R3, R4, R5, R6, R7, R8, R9	55,00%	Tests
R2	0,00%	Presentations
R7, R9	10,00%	Practices
R2	0,00%	Work
R1, R2, R3, R4, R5, R6, R7, R8, R9	5,00%	Participation in class

### Observations

#### Minimum requirements:

No subject of module 3 (Human Clinical Training) can be taken without having passed all subjects of module 1 (Morphology, Structure and Function of the Human Body).

It is necessary to obtain a minimum score of 5 in the test exam in order to pass and be able to add the rest of the evaluations.

#### Criteria for the awarding of honors:

Honors may be awarded to the best students, who must have obtained a minimum grade of 9.

If circumstances so require, a special test may be established to determine those students deserving of the honorary degree, taking into account the limitation of 5% of the students enrolled. In the second and subsequent examinations, only the number of honors that may remain after the first examination may be awarded.

**CRITERIA FOR THE AWARDING OF HONORS:** According to Article 22 of the Regulatory Regulations for the Evaluation and Grading of UCV Subjects, the mention of "Matrícula de Honor" may be awarded by the professor responsible for the subject to students who have obtained the grade of "Outstanding". The number of "Matrícula de Honor" mentions that may be awarded may not exceed five percent of the students included in the same official transcript, unless this is less than 20, in which case only one "Matrícula de Honor" may be awarded. only one "Matrícula de Honor" may be awarded.



## MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1	Masterclass
M2	Problems resolution and practical cases
M3	Virtual simulations
M4	Content presentations by teacher
M5	Knowledges and skills explanation
M8	Group activities supervised by professor
M9	Knowledge acquirance through student interaction and activity
M11	Personalised attention by professor
M12	Tests to understand the level of knowledge acquirance and skills
M13	Written work
M14	Online activity on e-learning
M15	Personal study



- M16 Information research
- M17 Discussion and solving issues in group
- M18 Work in team
- M19 Group work for searching, discussion and information research
- M20 Role-playing
- M21 Supervision of clinical histories



## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theory class M1, M4, M5	R1, R2, R3, R4, R5, R6, R7, R8, R9	42,00	1,68
Seminar and group practices M8, M9, M12, M16, M17, M18, M19	R2, R7, R8, R9	10,00	0,40
Practices in small groups M2, M8, M9, M12, M13, M17, M18	R2, R3, R7, R8, R9	5,00	0,20
Tutoring M8, M11	R1, R2, R3, R4, R5, R6, R7, R8, R9	1,50	0,06
Evaluation M12	R2, R7, R8, R9	1,50	0,06
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M2, M13, M14, M15, M16, M17, M18, M19	R1, R2, R3, R4, R5, R6, R7, R8, R9	90,00	3,60
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
Section I. Introduction to Preventive Medicine	Concept of Preventive Medicine and Public Health. Health and its determinants. Natural History of Disease. Levels and Strategies of Prevention. Inequalities in health.
Section II. Health demography, Information systems and General Epidemiology	Health demography. Sources of information. Epidemiology. Causality models.
Section III. Epidemiology and Prevention of Communicable Diseases	Introduction to epidemiology and prevention of communicable diseases. General foundations for prevention of communicable diseases. Sterilization and disinfection. Active and passive immunization. Vaccination programs. Healthcare associated Infections. Viral hepatitis. AIDS. Fecohydric transmission diseases. Respiratory diseases: Influenza, Legionellosis, Tuberculosis. Meningococcal disease. Zoonoses. Emerging infectious diseases. Travel health advice.
Section IV. Epidemiology and Prevention of Non-Communicable Diseases	General epidemiology of chronic diseases. NCD prevention strategies. Know the main factors of risk and determine the main risk factors and determinants of NCDs. Disability and mortality.



## Section V. Health protection.

Environment and human health.  
Environmental determinants.  
Sanitary importance of water, waste and Environmental pollution.  
Sanitary surveillance of food. Health hazards and risks associated with food. Food safety. Food control. Food poisoning and food poisoning.

## Section VI. Health Education.

Concepts and methods.  
Health education in the health care.  
Influence of lifestyle on health: nutrition, physical activity, drugs, risk behaviors, accidents and violence.

## Section VII. Health Promotion

Determinants in relation to health.  
Influence of Genetics in health.  
Growth, development and aging.  
Health and assistance programs.

## Section VIII. Occupational Health

Working conditions, determinants of health in the workplace and and prevention of occupational hazards.  
Occupational diseases



## Temporary organization of learning:

Block of content	Number of sessions	Hours
Section I. Introduction to Preventive Medicine	1,00	2,00
Section II. Health demography, Information systems and General Epidemiology	10,00	20,00
Section III. Epidemiology and Prevention of Communicable Diseases	10,00	20,00
Section IV. Epidemiology and Prevention of Non-Communicable Diseases	4,00	8,00
Section V. Health protection.	1,00	2,00
Section VI. Health Education.	1,00	2,00
Section VII. Health Promotion	2,00	4,00
Section VIII. Occupational Health	1,00	2,00

## References

### BASIC BIBLIOGRAPHY

·Piédrola Gil. Medicina preventiva y salud pública. 12 edition. Barcelona: Elsevier-Masson. 2016

### ADDITIONAL BIBLIOGRAPHY

·Hernández-Aguado I, Lumbreras B. Manual de Epidemiología y Salud Pública para grados en ciencias de la salud. 3rd Edition. Madrid: Médica Panamericana. 2018.

·Rothman, JK. Epidemiología Moderna. 6th ed. Madrid: Díaz Santos S.A; 1987

·Martínez Navarro, F et al. Salud Pública. Barcelona: McGraw-Hil-Interamericana; 1998 Rose, G.

·La estrategia de la medicina preventiva. Barcelona: Masson;1994.

·The Guide to Clinical Preventive Services. US Preventive Services Task Force (2022).

Available online: <https://www.uspreventiveservicestaskforce.org/>





## Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

**Situation 1: Teaching without limited capacity** (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

**Situation 2: Teaching with limited capacity** (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

### 1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒

Microsoft Teams

☐

Kaltura



## **Situation 3: Confinement due to a new State of Alarm.**

In this case, the following changes are made:

### **1. Educational Activities of Onsite Work:**

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☐ Kaltura

Explanation about the practical sessions:

Las prácticas se gestionarán a través de casos que se resolverán a través de la plataforma UCV y la herramienta Microsoft Teams para tutorizar las mismas.



## 2. System for Assessing the Acquisition of the competences and Assessment System

### ONSITE WORK

#### Regarding the Assessment Tools:



The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.



The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used
Exámen tipo test	45	Pasará a evaluación test con un % otorgado del 85%	MOODLE
Preguntas abiertas	30	No habrán preguntas abiertas 0%	
Exposición Oral	5	0%	
Trabajo	5	0%	
Participación clase	5	Se mantendrá la posibilidad de realizar y evaluar trabajos por sesiones (clase) con un % otorgado del 5%	Plataforma UCV y Microsoft Teams
Prácticas	10	10%	Plataforma UCV y Microsoft Teams



The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

### **Comments to the Assessment System:**

El resto de instrumentos de evaluación no se modificarán respecto a lo que figura en la guía docente.