



## Information about the subject

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

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

**Code:** 340309 **Name:** General Pathology I

**Credits:** 3,00 **ECTS Year:** 3 **Semester:** 1

**Module:** Human Clinical Training

**Subject Matter:** Human pathology basis **Type:** Compulsory

**Field of knowledge:** Health Science

**Department:** Medical Specialities

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

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

### Lecturer/-s:

343A Manuel Tejeda Adell (**Responsible Lecturer**)

manuel.tejeda@ucv.es

Maria Belen Romero Gomez

belen.romero@ucv.es

343B Manuel Tejeda Adell (**Responsible Lecturer**)

manuel.tejeda@ucv.es

Maria Belen Romero Gomez

belen.romero@ucv.es



## Module organization

### Human Clinical Training

Subject Matter	ECTS	Subject	ECTS	Year/semester
Human pathology basis	6,00	General Pathology I	3,00	3/1
		General Pathology II: Analysis by Problems	3,00	3/2
Psychology	6,00	Medical Psychology and Psychopathology	6,00	3/2
Human Pathology	102,00	Clinical Allergology and Immunology	3,00	3/2
		Dermatology	6,00	5/1
		Endocrinology and Nutrition	6,00	5/2
		Haematology	3,00	3/2
		Infectious Diseases	3,00	3/2
		Medical Oncology and Radiotherapy	3,00	5/2
		Medicine and Surgery of the Cardiocirculatory System	9,00	4/2
		Medicine and Surgery of the Digestive System	6,00	4/1
		Medicine and Surgery of the Musculoskeletal System	9,00	4/2
		Medicine and Surgery of the Nephro-Urological System	6,00	5/1



Human Pathology	Medicine and Surgery of the Nervous System	9,00	5/2
	Medicine and Surgery of the Respiratory System	6,00	3/2
	Obstetrics and Gynaecology	9,00	4/2
	Ophthalmology	3,00	3/2
	Otorhinolaryngology	3,00	4/2
	Paediatrics	9,00	5/2
	Palliative Medicine	3,00	6/1
	Psychiatry	3,00	5/1
	Rheumatology	3,00	4/2

## Recommended knowledge

Knowledge in Physiology I and II



## 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 how to make a complete anamnesis, focused on the patient and oriented to the various pathology, interpreting its meaning.
- R2 Know how to do a physical examination by devices and systems, as well as a psychopathological examination, interpreting its meaning.
- R3 Know how to evaluate the changes of clinical parameters in the different ages.
- R4 Establish an action plan, focused on the needs of the patient and the family and social environment, consistent with the symptoms and signs of the patient.
- R5 Know how to do basic and advanced life support maneuvers.
- R6 Knowing the organic physiopathology of the disease
- R7 Respiratory failure
- R8 Alterations in content and level of consciousness
- R9 Motor and sensitive alterations
- R10 Digestive syndromes
- R11 Endocrine syndromes
- R12 Metabolic syndromes
- R13 Cardiac failure
- R14 Shock
- R15 Hydroelectrolytic alterations



- R16      Renal failure and other renal syndromes
- R17      Pain physiopathology
- R18      Alterations in acid-base balance
- R19      Aging and death



## 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
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		



CG9	Understanding and recognizing the effects, mechanisms and manifestations of the disease on the structure and function of the human body				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
CG20	Acquiring enough clinical experience in hospital institutions, health centers or other health institutions, under supervision, as well as basic knowledge of patient-centered clinical management and appropriate use of tests, medicines and other health system resources		X		
CG21	Listening to carefully, obtain and synthesize relevant information about the problems afflicting the patient and understand the content of this information				X
CG22	Writing medical histories and other medical records in an understandable way to outsiders			X	
CG23	Communicating effectively and clearly, both orally and in writing, with patients, family members, media workers and other professionals			X	

SPECIFIC		Weighting			
		1	2	3	4
CE39	Recognizing, diagnosing and guiding the management of the main cardiocirculatory pathologies				X
CE40	Recognizing, diagnosing and guiding the management of the main diseases of the digestive system				X
CE41	Recognizing, diagnosing and guiding the management of major nephrouinary pathologies				X
CE43	Recognizing, diagnosing and guiding the management of the main pathologies of the respiratory system				X
CE44	Recognizing, diagnosing and guiding the management of the main pathologies of the endocrine system. Nutrition pathology				X



CE45	Recognizing, diagnosing and guiding the management of the main pathologies of the central and peripheral nervous system				X
CE53	Recognizing, diagnosing and guiding the management of major poisonings. Palliative medicine	X			
CE55	Recognizing, diagnosing and guiding the management of life-threatening situations	X			
CE56	Knowing how to make a complete anamnesis, patient-centered and oriented to the various pathologies, interpreting its meaning				X
CE60	Knowing how to do basic and advanced life support	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
CT7	Solving problems			X	
CT8	Making decisions			X	
CT9	Team work			X	
CT10	Interdisciplinary team work			X	
CT12	Interpersonal relationship skills			X	
CT14	Critical reasoning				X
CT15	Ethical commitment				X
CT16	Individual learning				X
CT17	New situations' adaptation			X	





CT26 Knowing how to value personal action and know your own skills and limitations

x

CT32 Being able to establish and maintain relationships with other professionals and institutions

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, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	70,00%	Tests
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	10,00%	Simulations, ECOE
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	20,00%	Practice exam

### Observations



## MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

## Learning activities

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

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
M13	Written work
M14	Online activity on e-learning
M15	Personal study



M21 Supervision of clinical histories

M22 Clinical practices

## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theory class M4, M5, M9, M14	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	26,00	1,04
Practices in small groups M2, M3, M8	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	6,00	0,24
Tutoring M11	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	3,00	0,12
Evaluation M9	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	3,00	0,12
<b>TOTAL</b>		<b>38,00</b>	<b>1,52</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M14, M15	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	37,00	1,48
<b>TOTAL</b>		<b>37,00</b>	<b>1,48</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
Etiopathogenesis	Etiopathogenesis
Respiratory pathophysiology	Respiratory pathophysiology
Cardiac pathophysiology	Cardiac pathophysiology
Vascular pathophysiology	Vascular pathophysiology
Neurological pathophysiology	Neurological pathophysiology
Digestive pathophysiology	Digestive pathophysiology
Nephrourological pathophysiology	Nephrourological pathophysiology
Endocrine pathophysiology	Endocrine pathophysiology
Liver and pancreatic pathophysiology	Liver and pancreatic pathophysiology
Bone, joint and muscle pathophysiology	Bone, joint and muscle pathophysiology



Hematologic pathophysiology

Metabolic pathophysiology

Clinical cases

Hematologic pathophysiology

Metabolic pathophysiology

Participatory analysis of clinical cases



## Temporary organization of learning:

Block of content	Number of sessions	Hours
Etiopathogenesis	2,00	4,00
Respiratory pathophysiology	1,00	2,00
Cardiac pathophysiology	1,00	2,00
Vascular pathophysiology	1,00	2,00
Neurological pathophysiology	1,00	2,00
Digestive pathophysiology	1,00	2,00
Nephrourological pathophysiology	1,00	2,00
Endocrine pathophysiology	1,00	2,00
Liver and pancreatic pathophysiology	1,00	2,00
Bone, joint and muscle pathophysiology	1,00	2,00
Hematologic pathophysiology	1,00	2,00
Metabolic pathophysiology	1,00	2,00
Clinical cases	6,00	12,00



## References

General pathology. Garcia-Conde, Merino Sánchez y González Macías. Marban Libros. 2013

General Pathology Manual. José Luis Pérez Arellano. Elsevier-Masson. 2019.



## 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:



## 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

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

#### Comments to the Assessment System: