



Information about the subject

Degree: Bachelor of Science Degree in Medicine

Faculty: Faculty of Medicine and Health Sciences

Code: 340310 **Name:** General Pathology II: Analysis by Problems

Credits: 3,00 **ECTS Year:** 3 **Semester:** 2

Module: Human Clinical Training

Subject Matter: Human pathology basis **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

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

Physiology
Physiological registration and functional tests
General Pathology 1



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 Respiratory failure
- R2 Alterations in content and level of consciousness
- R3 Motor and sensitive alterations
- R4 Digestive syndromes
- R5 Endocrine syndromes
- R6 Methabolic syndromes
- R7 Cardiac failure
- R8 Shock
- R9 Hydroelectrolytic alterations
- R10 Renal failure and other renal syndromes
- R11 Pain physiopathology
- R12 Alterations in acid-base balance
- R13 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
CE47	Recognizing, diagnosing and guiding the management of the main infectious diseases in the different rgans and systems				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	



Assessment system for the acquisition of competencies and grading system

Observations

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:

- 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, M8, M9, M14	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13	26,00	1,04
Practices in small groups M2, M3, M5	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13	6,00	0,24
Tutoring M11	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13	3,00	0,12
Evaluation M2, M5	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13	3,00	0,12
TOTAL		38,00	1,52

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
No attendance M2, M4, M5	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13	37,00	1,48
TOTAL		37,00	1,48



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Shock	Pathophysiological mechanisms, definition and types of shock
Respiratory insufficiency	Pathophysiological mechanisms, definition and types of respiratory failure
Renal insufficiency	Pathophysiological mechanisms, definition and types of kidney failure
Coma and brain death	Pathophysiological mechanisms, definition and types of coma. Brain death: concept and diagnosis
Sensory and motor syndromes	Main neurological syndromes, both sensory and motor.
Alterations in fluid and electrolyte balance	Pathophysiological mechanisms, definition and types of hydro-electrolytic alterations
Acid-base balance disturbances	Main acid-base alterations: pathophysiological mechanisms, definition and types.
Digestive syndromes	Main digestive syndromes: pathophysiological mechanisms, definition and types.
Liver syndromes	Main liver syndromes: pathophysiological mechanisms, definition and types.
Endocrine and metabolic syndromes	Main endocrine-metabolic syndromes: pathophysiological mechanisms, definition and types.
Hematologic syndromes	Major hematologic syndromes
Aging and death	Pathophysiological characteristics of aging. Death



Heart failure

Pathophysiological mechanisms, definition and types of heart failure

Clinical cases

Participatory analysis of clinical cases



Temporary organization of learning:

Block of content	Number of sessions	Hours
Shock	1,00	2,00
Respiratory insufficiency	1,00	2,00
Renal insufficiency	1,00	2,00
Coma and brain death	1,00	2,00
Sensory and motor syndromes	1,00	2,00
Alterations in fluid and electrolyte balance	1,00	2,00
Acid-base balance disturbances	1,00	2,00
Digestive syndromes	1,00	2,00
Liver syndromes	1,00	2,00
Endocrine and metabolic syndromes	1,00	2,00
Hematologic syndromes	1,00	2,00
Aging and death	1,00	2,00
Heart failure	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: