



Information about the subject

Degree: Bachelor of Science Degree in Criminology

Faculty: Faculty of Legal, Economic and Social Sciences

Code: 1301101 **Name:** Human Anatomy and Physiology

Credits: 6,00 **ECTS Year:** 1 **Semester:** 2

Module: Methodology. Scientific-technical.

Subject Matter: Forensic Science **Type:** Basic Formation

Field of knowledge: Other branches

Department: Criminology

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Methodology. Scientific-technical.

Subject Matter	ECTS	Subject	ECTS	Year/semester
Social	6,00	Research Methodology and Techniques in Social Sciences	6,00	1/2
Criminalistics	18,00	Applied Criminalistics	6,00	3/2
		Criminalistics Laboratory. Scientific Police	6,00	2/2
		Documentoscopy and Graphology	6,00	4/1
Forensic Science	24,00	Forensic Psychiatry	6,00	3/1
		Human Anatomy and Physiology	6,00	1/2
		Legal Medicine	6,00	2/1
		Techniques of Forensic Analyses	6,00	2/2

Recommended knowledge

They are not required. Prior acquisition of knowledge in biology or natural sciences equivalent to the basic ones of "Bachiller"



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 Providing the student with the fundamental concepts of Anatomy necessary for the study of Physiology and Pathology.
- R2 Being familiar with the language you will have to deal with in human pathology.
- R3 The anatomical knowledge according to the classical division of: tissue organization, study of the various apparatuses, organs and systems.
- R4 Studying the function of each of the components of the human body.
- R5 Conducting an initial sweep of the entire organization of the body and its general functions, insisting on the fundamental integration of all systems for the proper functioning of the human body.
- R6 To highlight the most important applications for the practice of Criminology.



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	Showing a command and understanding of knowledge in an area of study that is based on the general secondary education and that is usually at a level that implies the support on advanced textbooks but also the inclusion of knowledge from the cutting edge of their field of study.			X	
CB2	Being able to apply their knowledge to their jobs or vocational activities professionally and holding the competences that are demonstrated through the elaboration and defence of arguments as well as the solution of problems within their area of study.		X		
CB3	The ability to gather and interpret relevant data (normally within their area of study) so as to make judgements that include a reflection on relevant social, scientific or ethical issues.		X		
CB4	Being able to convey information, ideas, problems and solutions to a specialised or non-specialised public.		X		
CB5	Having developed the learning abilities necessary to pursue postgraduate studies with a high degree of autonomy.		X		
GENERAL		Weighting			
		1	2	3	4
CG5	The capacity to obtain and manage efficiently the information from the scientific literature, specialised journals, databases and other sources.		X		
CG6	The capacity to establish explanatory hypotheses, using predictive and operative relationships that offer responses to the criminal phenomenon in a criminological context.	X			
CG7	The capacity to take decisions and to design programs and strategies for both prevention and treatment of the criminal phenomenon.	X			



CG16 Oral and written communication skills in the native language with regards to Criminological Science in order to present, circulate and validate the outcomes of criminological and criminalistic research both through scientific development and through the proposal of specific policies and lines of action.

X

SPECIFIC

Weighting

1 2 3 4

CE23 Knowledge and application of scientific research techniques in the medical-legal and criminalistic field, as well as the basis and preparation of various expert reports.

X

CE24 Training in the elaboration of criminologist expert reports as well as in expert intervention in the different phases of the procedures.

X



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R4	55,00%	Analysis and resolution of case studies.
R2, R5	15,00%	Attendance and participation in class.
R3, R5, R6	30,00%	Exam or objective test to measure obtained competences.

Observations

Failure to comply with the rules and deadlines established for the performance of academic activities will invalidate the grade. 85% of the grade is collected in a final exam (55% resolution of anatomical practical cases in theoretical questions and 30% in the identification of anatomical structures in the same objective test). The minimum grade to pass the subject is a 5 but it is necessary to pass the exam (obtain 50% of its value) to compute the grade of attendance and participation.

REGULATIONS GOVERNING THE EVALUATION AND GRADING OF SUBJECTS (Art. 22.2), "The mention of "Distinction of Honors" may be awarded by the professor responsible for the subject to students who have obtained the grade of "Outstanding". The number of mentions of "Matricula de Honor" that can be awarded may not exceed five percent of the students included in the same official record, unless this is less than 20, in which case one may be awarded.

Regarding the "single evaluation" option: In accordance with article 9 of the General Regulations for the Evaluation and Qualification of Official Studies and Specific Degrees of the UCV, the continuous evaluation system is the preferred evaluation system at the UCV. But, equally, article 10 allows, for those students who justifiably and accreditedly express their impossibility of attending face-to-face (or synchronous communication activities for virtual and/or hybrid teaching modalities), their evaluation on an extraordinary basis in the so-called single evaluation. This single evaluation must be requested within the first month of each semester from the Dean of the Faculty through the Vice-Dean's Office. In this subject, the single assessment is included in a single multiple-choice exam with 30% for the practical assessment and the rest for the theoretical assessment.



CLASS ATTENDANCE IN FACE-TO-FACE DEGREES

In accordance with the development guidelines of the General Regulations for the Evaluation and Qualification of Official Teachings and Own Degrees of the UCV, in face-to-face degrees, class attendance with a minimum of 80% of the sessions of each subject will be required as a requirement to be evaluated. This means that, if a student does not attend the sessions of each subject, in a percentage greater than 20%, he/she will not be able to be evaluated, neither in the first nor in the second call, unless the person responsible for the subject, with the approval of the person responsible for degree, in view of duly justified exceptional circumstances, exempt from the minimum attendance percentage. The same criterion will be applicable for hybrid or virtual degrees in which teachers must maintain the same percentage in the requirement of "presence" in the different training activities, if any, even if these are carried out in virtual environments.

MENTION OF DISTINCTION:

The mention of "Honors" may be awarded to students who have obtained a grade equal to or greater than 9.0. Their number may not exceed five percent of the students enrolled in a group in the corresponding academic year, unless the number of students enrolled is lower.

Learning activities

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

- M1 Presentation of contents by the teacher, analysis of competencies, explanation and demonstration of abilities, skills and knowledge in the classroom.
- M2 Specific instructions about group and individual assignments for each topic.
- M3 Group work sessions supervised by the teacher. Study of legal cases, both real and fictitious, analysis, diagnosis, problems, field study, computer room, visits, data search, libraries, network, Internet, etc. Significant construction of knowledge through student interaction and activity. Critical analysis on values and social commitment.
- M4 Application of interdisciplinary knowledge.
- M5 Supervised monographic sessions with shared participation
- M6 Personalized attention and in small groups. Period of instruction and/or orientation carried out by a tutor with the objective of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc.



- M7 Set of oral and/or written tests used in the initial, formative or summative evaluation of the student.
- M8 Group preparation of readings, assumptions and problem -olving to present, discuss or deliver in class or tutorial.
- M9 Student's study: Individual reading preparation, case studies, jurisprudence. Writings and papers to be presented or delivered in the classes or tutorials.

IN-CLASS LEARNING

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
In-person class M1	R1, R2, R3, R4	15,00	0,60
Practical class M2, M3	R2, R3, R4	30,00	1,20
Seminar M5	R2, R6	2,50	0,10
Group work presentation M6	R1, R3, R4	5,00	0,20
Tutorial M2, M6	R1, R5	5,00	0,20
Evaluation M7	R1, R2, R3, R4, R5	2,50	0,10
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Group work M4, M8	R1, R5, R6	30,00	1,20
Individual work M4, M9	R2, R3, R4	60,00	2,40
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
INTRODUCTION	INTRODUCTION TO THE STUDY OF HUMAN ANATOMY AND PHYSIOLOGY. Spatial Terminology and General
EMBRYOLOGY AND HISTOLOGY	Basic concepts of Human Embryology and Histology
LOCOMOTOR SYSTEM	Osteology and general myology. Joint physiology
CARDIOCIRCULATORY SYSTEM	Heart. Arterial system. Venous system. Lymphatic system.
RESPIRATORY SYSTEM	Structure and general function of the system. Conduction pathways, alveolus, capillary-alveolar structure, pleurae and ventilation
DIGESTIVE SYSTEM	Digestive tract. Digestive splanchnology, peristalsis, main secretion structures, villi structure, hepatic portal system.
UROGENITAL SYST	Splanchnology and urinary tract. Male and female sex apparatus.
ENDOCRINE & NERVOUS SYSTEMS	ENDOCRINE SYSTEM NERVOUS SYSTEM: ORGANIZATION. Ascending and descending pathways, reflex arches, spinal and cranial nerves. Sense Organs



Temporary organization of learning:

Block of content	Number of sessions	Hours
INTRODUCTION	2,00	4,00
EMBRYOLOGY AND HISTOLOGY	2,00	4,00
LOCOMOTOR SYSTEM	10,00	20,00
CARDIOCIRCULATORY SYSTEM	2,00	4,00
RESPIRATORY SYSTEM	2,00	4,00
DIGESTIVE SYSTEM	2,00	4,00
UROGENITAL SYST	2,00	4,00
ENDOCRINE & NERVOUS SYSTEMS	8,00	16,00

References

BASIC. Anatomía para estudiantes. 2024 Estructura y función del cuerpo humano. Kevin Patton 16th Edition - (2020) - Elsevier Sobotta. Texto de anatomía. Waschke, J. Koch, M. Kürten, S. Tanzil-Schulze, G. y Spittau, B. Ed. ELSEVIER (2018) Atlas de anatomía humana, Edición 7 By F.H. Netter Ed. ELSEVIER (2019) Sobotta. Atlas de anatomía humana vol 1 y 2 Edición 24 By Friedrich Paulsen and Jens Waschke; Edited by Friedrich Paulsen and Jens Waschkey Ed. ELSEVIER (2018)

COOMPLEMENTARY: Sobotta. Cuaderno de anatomía para colorear. 5 edition. Oliver Kretz (2022) Gray. Flashcards de Anatomía. 4 edition. Richard L. Drake & A. Wayne Vogl & Adam M.W. Mitchell (2022) Netter. Atlas de anatomía humana. Abordaje por sistemas. Elsevier (2023)