Information about the course

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 Sciences **Type:** Formación Básica

Branch of knowledge:

Department: Criminology

Type of learning: Classroom-based learning

Language/-s in which it is given: Spanish

Teachers:

Module organization

Methodology. Scientific-technical

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

Recommended knowledge

Prior knowledge of basic biology concepts is recommended.

Learning outcomes

At the end of the course, the student must demonstrate having acquired the following learning outcomes:

R1 - RA1 – Have acquired advanced knowledge and demonstrated understanding of theoretical and practical aspects and working methods in their field of study, reaching the forefront of knowledge.

Learning outcomes of the specified title

Type of AR: Conocimientos o contenidos

- Have acquired advanced knowledge and demonstrated understanding of theoretical and practical aspects and working methods in their field of study, reaching the forefront of knowledge.

R10 - RA24 – Formulate explanatory and predictive hypotheses about crime based on research techniques specific to criminology and related disciplines.

Learning outcomes of the specified title

Type of AR: Habilidades o Destrezas

- Formulate explanatory and predictive hypotheses about crime based on research techniques specific to criminology and related disciplines.

R2 - RA2 – Be able, through arguments or procedures developed and supported by the student, to apply their knowledge, understanding and problem-solving abilities in complex, specialised professional contexts that require creative and innovative ideas.

Learning outcomes of the specified title

Type of AR: Competencias

- Be able, through arguments or procedures developed and supported by the student, to apply their knowledge, understanding and problem-solving abilities in complex, specialised professional contexts that require creative and innovative ideas.

R3 - RA3 – Have the capacity to collect and interpret data and information on which to base conclusions, including reflection on social, scientific or ethical issues when necessary.

Learning outcomes of the specified title

Type of AR: Competencias

- Have the capacity to collect and interpret data and information on which to base conclusions, including reflection on social, scientific or ethical issues when necessary.

R4 - RA4 – Be able to manage complex situations or those requiring the development of new solutions in academic or professional contexts within their field of study.

Learning outcomes of the specified title

Type of AR: Competencias

- Be able to manage complex situations or those requiring the development of new solutions in academic or professional contexts within their field of study.

R5 - RA5 – Be able to communicate knowledge, methodologies, ideas, problems and solutions clearly and accurately to all types of audiences (specialised or non-specialised).

Learning outcomes of the specified title

Type of AR: Competencias

- Be able to communicate knowledge, methodologies, ideas, problems and solutions clearly and accurately to all types of audiences (specialised or non-specialised).

R6 - RA6 – Be able to identify their own learning needs within their field and professional environment, and to organise their own learning autonomously in all types of contexts (structured or unstructured).

Learning outcomes of the specified title

Type of AR: Competencias

- Be able to identify their own learning needs within their field and professional environment, and to organise their own learning autonomously in all types of contexts (structured or unstructured).

R7 - RA15 – Prepare criminological reports in judicial, expert and extrajudicial contexts.

Learning outcomes of the specified title

Type of AR: Habilidades o Destrezas

- Prepare criminological reports in judicial, expert and extrajudicial contexts.

R8 - RA16 – Design, implement and analyse effective programmes and strategies for crime prevention, intervention and rehabilitation.

Learning outcomes of the specified title

Type of AR: Habilidades o Destrezas

- Design, implement and analyse effective programmes and strategies for crime prevention , intervention and rehabilitation.

R9 - RA17 – Use criminology-specific terminology—in Spanish and English—along with terminology from related fields, ensuring the correct use of criminological concepts.

Learning outcomes of the specified title

Type of AR: Habilidades o Destrezas

- Use criminology-specific terminology—in Spanish and English—along with terminology from related fields, ensuring the correct use of criminological concepts.

Assessment system

In-person modality

Assessed learning outcomes	Granted percentage	Assessment tool
R1, R2, R3, R4, R5, R6	10,00%	Class attendance and participation
R1, R2, R3, R4, R5, R6	40,00%	Completion and resolution of practical cases
R1, R2, R3, R4, R5, R6	50,00%	Examination or objective test to measure the competencies acquired

Observations

Failure to comply with the established rules and deadlines for completing academic activities will invalidate the grade. 85% of the grade is based on a final exam (55% on solving anatomical case studies in theoretical questions and 30% on identifying anatomical structures in the same objective test). The minimum passing grade for the course is 5, but passing the exam (achieving 50% of its value) is required to have the attendance and participation grade calculated. According to the current REGULATIONS GOVERNING THE EVALUATION AND GRADING OF SUBJECTS (Art. 22.2), “The 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 “Honors” distinctions that may be awarded may not exceed five percent of the students included in the same official record , unless this number is less than 20, in which case only one “Honors” distinction may be awarded. ” A grade higher than 9 is required for this distinction.
In accordance with Article 9 of the General Regulations for the Evaluation and Grading of Official Degrees and University-Specific Programs at the UCV, the single assessment is linked to the impossibility of attendance for students enrolled in a face-to-face degree program. It is, therefore, an extraordinary and exceptional assessment system available to students who, with justification and supporting documentation, cannot participate in the continuous assessment system, and who request it from the professor responsible for the course. The professor will expressly decide on the

admission of the student's request for a single assessment and will communicate the acceptance or rejection to the student. With regard to the Human Anatomy and Physiology course, the minimum attendance requirement is 60%, which is the threshold to be considered for a potential request for a single assessment.
CONSIDERATIONS FOR THE USE OF ARTIFICIAL INTELLIGENCE (AI): Within the framework of this course, the use of AI is permitted for: Consulting questions about learning activities Assisted learning (alternative explanations or self-assessment exercises) Searching for alternative resources and references for study Generating diagrams or concept maps to support study Within the framework of this course, the use of AI is NOT permitted for: Recording or transcribing, in whole or in part, any activity carried out in the classroom, in order to obtain summaries or notes generated by AI Generating text in any of the assessment activities Presenting work generated by AI as one 's own Providing AI with statements, exercises, or assessment tests to obtain automatic responses Introducing notes or any other material authored by the teaching staff into AI tools (such as ChatGPT or other non-institutional tools) whose information is not in controlled environments.
Citation and Attribution Criteria:
All use of AI tools must be explicitly declared in the submitted document (e.g., in a footnote or appendix). The name of the tool, its purpose (e.g., grammar checking, organization of ideas, writing examples), and where in the work it was used must be indicated. Responsible use of AI will be assessed as part of the criteria for originality and academic integrity.

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.

Training activities

The methodologies to be used so that the students reach the expected learning outcomes will be the following:

M1	Presentation of content by the teacher, analysis of competencies, and explanation and demonstration of skills, abilities and knowledge in the classroom.
M2	Specific instructions regarding group and individual work for each topic.
M3	Group work sessions supervised by the teacher. Study of legal cases—both real and fictitious—analysis, diagnosis, problem-solving, field study, computer lab work, visits, data collection, library and online research. Meaningful knowledge construction through student interaction and activity. Critical analysis of values and social commitment.
M4	Supervised monographic sessions with shared participation.

M7 Application of interdisciplinary knowledge.

M8 Personalised attention and small-group tutorials. Instruction and/or guidance by a tutor with the purpose of reviewing and discussing materials and topics presented in classes, seminars, readings, and assignments.

M11 Oral and/or written tests used in the initial, formative, or summative assessment of students.

M12 Collection of assignments, group discussions, and reflection on experiences. Assessment reports designed for this purpose.

M14 Group preparation of readings, case studies and problem-solving activities for presentation, discussion or submission in classes or tutorials.

M15 Individual student study: Preparation of readings, analysis of practical cases and case law, and writing of papers or assignments to be presented or submitted in classes or tutorials.

IN-CLASS TRAINING ACTIVITIES

ACTVITY	RELATIONSHIP WITH THE COURSE LEARNING OUTCOMES	METHODOLOGY	HOURS	ECTS
Face-to-face class (on-site activity)	R1, R2, R3, R4, R5, R6	Presentation of content by the teacher, analysis of competencies, and explanation and demonstration of skills, abilities and knowledge in the classroom.	30,00	1,20

Practical class (on-site activity)	R1, R2, R3, R4, R5, R6	Specific instructions regarding group and individual work for each topic. Group work sessions supervised by the teacher. Study of legal cases —both real and fictitious—analysis, diagnosis, problem-solving, field study, computer lab work, visits, data collection, library and online research. Meaningful knowledge construction through student interaction and activity. Critical analysis of values and social commitment.	15,00	0,60

Seminar (on-site activity)	R1, R2, R3, R4, R5, R6	Specific instructions regarding group and individual work for each topic. Group work sessions supervised by the teacher. Study of legal cases —both real and fictitious—analysis, diagnosis, problem-solving, field study, computer lab work, visits, data collection, library and online research. Meaningful knowledge construction through student interaction and activity. Critical analysis of values and social commitment.	2,50	0,10
Presentation of group work (on-site class)	R1, R2, R3, R4, R5, R6	Supervised monographic sessions with shared participation. Application of interdisciplinary knowledge.	5,00	0,20

Tutorial (on-site activity)	R1, R2, R3, R4, R5, R6	Personalised attention and small-group tutorials. Instruction and/or guidance by a tutor with the purpose of reviewing and discussing materials and topics presented in classes, seminars, readings, and assignments.	5,00	0,20
Assessment (on-site activity)	R1, R2, R3, R4, R5, R6	Oral and/or written tests used in the initial, formative, or summative assessment of students. Collection of assignments, group discussions, and reflection on experiences. Assessment reports designed for this purpose.	2,50	0,10
TOTAL			**60,00**	**2,40**

TRAINING ACTIVITIES OF AUTONOMOUS WORK

ACTVITY	RELATIONSHIP WITH THE COURSE LEARNING OUTCOMES	METHODOLOGY	HOURS	ECTS
Group work (independent work activity)		Group preparation of readings, case studies and problem-solving activities for presentation, discussion or submission in classes or tutorials.	30,00	1,20
Individual work (independent work activity)		Individual student study: Preparation of readings, analysis of practical cases and case law, and writing of papers or assignments to be presented or submitted in classes or tutorials.	60,00	2,40
TOTAL			**90,00**	**3,60**

Description of contents

Description of content necessary for the acquisition of learning outcomes.

Theoretical content:

Block of content	Contents
EMBRYOLOGY AND HISTOLOGY	Basic concepts of human embryology and histology.
INTRODUCTION	Introduction to the study of human anatomy and physiology. Anatomical terminology and generalities.
NERVOUS AND ENDOCRINE SYSTEMS	Nervous system: Generalities. Organization. Sensitive pathway. Motor pathway. Special senses. Endocrine system: Generalities. Organization and functions.
LOCOMOTOR SYSTEM	Osteology and myology.
CARDIOCIRCULATORY SYSTEM	Heart. Arterial system. Venous system. Lymphatic system.
RESPIRATORY SYSTEM	Structure and function of the respiratory system.
DIGESTIVE SYSTEM	Structure and function of the digestive system.
UROGENITAL SYSTEM	Structure and function of the urogenital system.

Temporary organization of learning:

Block of content	Sessions	Hours
EMBRYOLOGY AND HISTOLOGY	2	4,00
INTRODUCTION	2	4,00
NERVOUS AND ENDOCRINE SYSTEMS	12	24,00
LOCOMOTOR SYSTEM	6	12,00
CARDIOCIRCULATORY SYSTEM	3	6,00
RESPIRATORY SYSTEM	2	4,00
DIGESTIVE SYSTEM	2	4,00
UROGENITAL SYSTEM	1	2,00

References

Bibliografía básica:

·Tortora y Derrickson (2022) Introducción al cuerpo humano. Principios de Anatomía y Fisiología. Editorial Médica Panamericana. 15ª ed.

·Guyton y Hall (2021) Tratado de fisiología médica. Elsevier. 14ª ed.

·Fox (2017) Fisiología humana. McGraw-Hill Interamericana. 14ª ed.

·Mulroney y Myers (2025). Netter Fundamentos de Fisiología. Elsevier-Masson. 3ª ed

·Stanfield (2011) Principios de fisiología humana. Pearson. 4ª ed.

·Drake, Vogl y Mitchell (2024) Gray. Anatomía para estudiantes. Elsevier. 5ª ed.

·Patton y Thibodeau (2020) Estructura y función del cuerpo humano. Elsevier. 16ª ed.

·Waschke, Koch, Kürten, Tanzil-Schulze y Spittau (2018) Sobotta. Texto de anatomía. Elsevier. 1ª ed.

·Paulsen y Waschke (2024) Sobotta. Atlas de anatomía humana vol 1 y 2. Elsevier. 25ª ed.

·Netter (2019) Atlas de anatomía humana, Elsevier. 7ª ed.

Bibliografía complementaria:

·Kretz (2022) Sobotta. Cuaderno de anatomía para colorear. Elsevier. 5ª ed.

·Drake, Vogl y Mitchell (2022) Gray. Flashcards de Anatomía. Elsevier. 4ª ed.

·Netter (2023) Netter. Atlas de anatomía humana. Abordaje por sistemas. Elsevier. 8ª ed.