



Information about the subject

Degree: Bachelor of Science Degree in Criminology

Faculty: Faculty of Legal, Economic and Social Sciences

Code: 1302012 **Name:** Applied Statistics

Credits: 6,00 **ECTS Year:** The course is not offered this academic year **Semester:** 0

Module: Elective itineraries

Subject Matter: Technical-legal itinerary **Type:** Elective

Department: Criminology

Type of learning: Classroom-based learning

Languages in which it is taught:

Lecturer/-s:



Module organization

Elective itineraries

Subject Matter	ECTS	Subject	ECTS	Year/semester
Technical-legal itinerary	60,00	Applied Statistics	6,00	This elective is not offered in the academic year 24/25
		Directive and Negotiation Skills	6,00	This elective is not offered in the academic year 24/25
		Economic Crimes	6,00	This elective is not offered in the academic year 24/25
		Environmental Criminology	6,00	This elective is not offered in the academic year 24/25
		Human Resources and Occupational Hazards	6,00	4/2
		Judicial Police	6,00	This elective is not offered in the academic year 24/25
		Medical Law and Healthcare Legislation	6,00	This elective is not offered in the academic year 24/25
		Research Techniques for Missing Individuals	6,00	4/2



Technical-legal itinerary		-Road Safety. Factors of Accident Rate. Investigation and Prevention of Accidents	6,00	This elective is not offered in the academic year 24/25
		Technological Crimes	6,00	This elective is not offered in the academic year 24/25
Medical and calligraphic expertise itinerary	54,00	Arsons and Criminal Investigation	6,00	This elective is not offered in the academic year 24/25
		Documentoscopy. Calligraphic Expertise	6,00	This elective is not offered in the academic year 24/25
		Expert Intervention. Criminological Report	6,00	4/1
		Legal Medicine in the Workplace	6,00	This elective is not offered in the academic year 24/25
		Medical and Surgical Physiopathology	6,00	This elective is not offered in the academic year 24/25
		Medical and Surgical Physiopathology	6,00	2/2
		Physical damage	6,00	This elective is not offered in the academic year 24/25
Thanatology	6,00	This elective is not offered in the academic year 24/25		



Medical and calligraphic expertise itinerary		Toxicology and Drug Dependence	6,00	This elective is not offered in the academic year 24/25
Psycho-social and private security itinerary	72,00	Communication and Negotiation	6,00	This elective is not offered in the academic year 24/25
		Direction and Management of Security Businesses	6,00	This elective is not offered in the academic year 24/25
		Discrimination and Gender Violence	6,00	This elective is not offered in the academic year 24/25
		Forensic Anthropology	6,00	This elective is not offered in the academic year 24/25
		Forensic Paediatrics	6,00	This elective is not offered in the academic year 24/25
		Pedagogy	6,00	This elective is not offered in the academic year 24/25
		Planning and Management of Security. Techniques and Tools	6,00	4/2
		Psychography	6,00	This elective is not offered in the academic year 24/25
		Psychology of Testimony	6,00	4/2
		Risk Analysis. Project of Comprehensive Safety	6,00	4/1



Psycho-social and private security itinerary	Social Intervention Networks and Situational Prevention	6,00	This elective is not offered in the academic year 24/25
	Social Work	6,00	This elective is not offered in the academic year 24/25

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 Knowing the tools of Descriptive Statistics (Tables, Graphs and Statistics) and which one is applicable in each specific case.
- R2 Understanding and developing a descriptive study of a statistical variable.
- R3 Understanding, quantifying and expressing the linear relationship between two numerical variables.
- R4 The student understands the basic principles of probability theory and is able to apply them to solve simple problems.
- R5 Knowledge and correct application of statistical concepts applied to diagnostic tests (relative risk, specificity, sensitivity).
- R6 Knowledge of basic statistical methods and techniques at a descriptive level.
- R7 Using statistical analysis.
- R8 Correctly interprets results from the literature based on confidence intervals and hypotheses validation.



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
CG1	Understanding and integrating the different theories and scientific knowledge developed by Social, Legal and Behavioural Sciences through a critical lens in order to understand the sociocultural and personal context of all the elements that integrate the crime sphere.				X
CG2	Being able to assess the complexity and diversity of the criminal phenomenon in a global context.				X
CG4	The capacity for teamwork and efficient collaboration with other professionals from the different areas of criminology through negotiation and consensus.				X



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, R5, R6, R7, R8	20,00	0,80
Practical class M3	R1, R2, R3, R4, R5, R6, R7, R8	25,00	1,00
Seminar M5	R1, R2, R3, R4, R5, R6, R7, R8	2,50	0,10
Group work presentation M4	R1, R2, R3, R4, R5, R6, R7, R8	5,00	0,20
Tutorial M2, M6	R1, R2, R3, R4, R5, R6, R7, R8	5,00	0,20
Evaluation M7	R1, R2, R3, R4, R5, R6, R7, R8	2,50	0,10
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Group work M8	R1, R2, R3, R4, R5, R6, R7, R8	30,00	1,20
Individual work M9	R1, R2, R3, R4, R5, R6, R7, R8	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
CONTENIDOS	<p>Introduction to Statistics. Basic Statistics Concepts. Criminological databases and analysis. Research methods. The construction of variables as the first step of Sociostatistics. Types of Variables. The data matrix as a summary and joint representation of the variables considered and the research units that are studied. Modifications and usual treatments on the data matrix. Descriptive one-dimensional. Frequency Distributions and Graphic Representations. Position measurements. Dispersion measures. Joint consideration of position and dispersion measurements. Two-dimensional descriptive. Frequency Distributions and Graphic Representations. Association and covariation. The Chi-Square. Correlation and Regression. Linear model. Causality in Social Sciences. Populations and samples. Probability Distributions. Summary of the values ??of the variables and their probabilities.</p>

Temporary organization of learning:

Block of content	Number of sessions	Hours
CONTENIDOS	30,00	60,00



References

