

## 26121 - Statistics applied to social research

### Syllabus Information

**Academic year:** 2024/25

**Subject:** 26121 - Statistics applied to social research

**Faculty / School:** 108 - Facultad de Ciencias Sociales y del Trabajo

**Degree:** 274 - Degree in Social Work

**ECTS:** 6.0

**Year:** 3

**Semester:** First semester

**Subject type:** Compulsory

**Module:**

### 1. General information

This course offers an introduction to statistical data analysis, a fundamental tool for training critical professionals and future researchers and future researchers.

Being part of the first four-month period of the third year of the Social Work Degree, the student, after having passed the basic subjects, has already had the opportunity to learn about the origin of the data and experience the need to structure and extract information. The objective of this subject is to introduce the relevant statistical tools to address the demands of organizing, summarizing, analyzing and communicating information from data.

### 2. Learning results

The subject, which is mandatory, is part of the students' basic training. Its purpose is to address the needs that future Social Work professionals will face in their role as social researchers in their daily practice.

- Is able to correctly summarize and describe numerical and non-numerical information (data) using a spreadsheet, either collected by him/herself or from different sources.
- Is capable of carrying out a written analysis in the form of a report, or by means of an oral presentation, on different variables and possible relationships between them.
- Is able to critically discuss what has been done by other authors, having previously understood it.

### 3. Syllabus

#### **Part I: Statistical methods for one variable.**

**Unit 1:** Introduction to Statistics: Statistical methods in Social Sciences. Types of variables.

**Unit 2:** Tabular representation.

**Unit 3:** Graphical representations.

**Unit 4:** Numerical description I: Measures of central tendency and position.

**Unit 5:** Numerical description II: Measures of dispersion and shape.

#### **Part II: Statistical methods for two variables.**

**Unit 6:** Introduction to bivariate analysis. Analysis of a quantitative and a qualitative variable.

**Unit 7:** Bivariate analysis of two qualitative variables.

**Unit 8:** Bivariate analysis of two quantitative variables and regression.

### 4. Academic activities

- **Master classes:** 30 hours.
- **Resolution of theoretical problems or resolution of practical cases:** 30 hours.

- **Supervised work:** 20 hours.
- **Personal study:** 64 hours.
- **Assessment activities:** 6 hours.

The subject distributes its 6 credits as follows: 3 ECTS are dedicated to sessions with the whole group, in which presents the theory and illustrative examples that highlight its relevance in the field of Social Research. The remaining 3 ECTS focus on the development of skills to pose, model and solve problems that emulate real situations, either through theoretical exercises or by performing practical tasks that may involve the use of digital tools.

## 5. Assessment system

### Continuous Assessment:

i) **Computer-based Written Exam on Univariate Statistics:** Accounts for 3.5/10 points of the final grade. Mid-semester. Minimum required grade: 3.5/10.

ii) **Computer-based Written Exam on Bivariate Statistics:** Accounts for 3.5/10 points of the final grade. End of the semester, before the official exam period. Minimum required grade: 3.5/10.

iii) **Supervised Work:** Accounts for 2/10 points of the final grade. Report or an oral presentation on the application and interpretation of statistical techniques covered in class, applied to a data set. It will be done in groups of 3 to 5 people during the last weeks of class. Minimum required grade: 5/10.

iv) **Continuous Assessment Activities:** Accounts for 1.5/10 points of the final grade. Short questions and exercises to be solved during class time, usually in pairs or small groups. No minimum grade required.

Given the number and variety of assessment tasks, the total available points amount to 10.5. However, the maximum achievable grade is 10.

To pass the course through continuous assessment, the total score obtained must be equal to or greater than 5, provided that the minimum grades required in each section are met.

### Global Assessment:

Students who do not meet the minimum required grades in the written exams or supervised work, as well as those who do not achieve a final weighted score of at least 5/10, will have the right to take a global computer-based written exam.

## 6. Sustainable Development Goals

- 5 - Gender Equality
- 8 - Decent Work and Economic Growth