

**COURSE DATA****DATA SUBJECT****Code:** 33935**Name:** Statistics**Cycle:** Undergraduate Studies**ECTS Credits:** 6**Academic year:** 2026-27**STUDY (S)**

Degree	Center	Acad. year	Period
1205 - Degree in Human Nutrition and Dietetics	Facultat de Farmàcia i Ciències de l'alimentació	1	Second quarter
1938 - Doble grado en Nutrición Humana y Dietética y CAFD	Facultat de Farmàcia i Ciències de l'alimentació	1	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1205 - Degree in Human Nutrition and Dietetics	Statistics	BASIC
1938 - Doble grado en Nutrición Humana y Dietética y CAFD		

COORDINATION

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SUMMARY

This course aims to provide students with the tools and basic concepts of Statistics which are necessary to state statistical hypotheses, recognize simple probabilistic models, analyse data obtained by either direct observation of the environment or as a result of controlled experiments in laboratories, and make decisions based on the conclusions drawn from this analysis. An additional purpose of this course is to motivate students in the study and application of Statistics, using the proper tools to solve real problems.

PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS



There are no recommendations as this is an introductory course.

COMPETENCES / LEARNING OUTCOMES

1205 - Degree in Human Nutrition and Dietetics

Analyse the data observed using a statistical package.

Be familiar with statistics applied to health sciences.

Describe and synthesise the dataset observed in the experiment.

Design simple experiments that may be useful to achieve the objectives of the study.

Interpret the results provided by statistical packages.

Prepare and present a report of the experimental study conducted.

DESCRIPTION OF CONTENTS

1. Unit 1: Introduction to Statistics and Exploratory Data Analysis.

Introduction to Statistics

Sample description.

Population description: Introduction to Probability

2. Statistical analysis of a variable

Inference on proportions

Inference on a population mean

3. Statistical analysis of more than one variable

Comparison of two population means

Comparison of more than two population means

Comparison of categorical variables

WORKLOAD

PRESENCIAL ACTIVITIES



Activity	Hours
Tutorials	2,00
Theory	45,00
Seminar	2,00
Computer classroom practice	8,00
Total hours	57,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	10,00
Independent study and work	20,00
Preparation of lessons	40,00
Preparation for assessment activities	20,00
Resolution of case studies	0,00
Total hours	90,00

TEACHING METHODOLOGY

Theory classes will be devoted to develop the agenda and raise problems whose solution requires the methodology corresponding to each subject. We will introduce the appropriate statistical technique and apply it to solve proposed problems using statistical software. For the preparation of the course the student will have a collection of proposed problems, separated by subjects, which they will have to resolve on their own. The practical sessions will take place in a computer room and will be synchronized with the theory; they will allow the student to solve problems by applying the statistical procedures

EVALUATION

The final grade for the course is calculated from the following three blocks:

- B1. Theoretical-practical exam, the resolution of which requires, among others, the interpretation of different outputs of the statistical software R used during the course: 70% of the final grade. The minimum grade required in this block to compensate with the other blocks is 5 out of 10.

- B2. Solution of practical cases in the computer sessions, which requires the use of the statistical software R and the interpretation of the results obtained: 20% of the final grade.

- B3. Qualification obtained by the student in the coordinated seminar during the course: 10% of the final



grade.

The continuous evaluation, corresponding to blocks B2 and B3, is not recoverable. In the second call of the subject, only the theoretical-practical exam (block B1) will be repeated and the grades obtained in blocks B2 and B3 will be kept.

Copying or plagiarizing of any task that is part of the evaluation will mean the impossibility of passing the subject, subjecting themselves to the appropriate disciplinary procedures.

Keep in mind that, in accordance with article 13. d) of the University Student Statute (RD 1791/2010, of December 30), it is the duty of a student to refrain from the use or cooperation in fraudulent procedures in the evaluation tests, in the work carried out, or in official documents of the university.

REFERENCES

- Samuels, M.L., Witmer, J.A. y Schaffner, A. (2012). Fundamentos de Estadística para las Ciencias de la Vida (4a ed.) Pearson Educación S.A.
- Bower, J.A. (2009). Statistical Methods for Food Science. Wiley-Blackwell.