

**COURSE DATA****Data Subject**

<b>Code</b>	42682
<b>Name</b>	Statistics
<b>Cycle</b>	Master's degree
<b>ECTS Credits</b>	3.0
<b>Academic year</b>	2021 - 2022

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
2124 - M.U. en Salud pública y gestión sanitaria 12-V.1	Faculty of Pharmacy and Food Sciences	1	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
2124 - M.U. en Salud pública y gestión sanitaria 12-V.1	1 - Methodology in public health	Obligatory

**Coordination**

<b>Name</b>	<b>Department</b>
IÑIGUEZ HERNANDEZ, MARIA DEL CARMEN	130 - Statistics and Operational Research

**SUMMARY**

In this introductory course to statistics is intended that students learn aspects related to the basic concepts of Uncertainty, Probability and Sampling. The student must also understand key aspects of demography and descriptive and inferential statistics. The student must distinguish the different types of statistical analysis that can be found in the field of Public Health.

**PREVIOUS KNOWLEDGE****Relationship to other subjects of the same degree**



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

### **Other requirements**

The recommended profile is the person in possession of an official Spanish university degree or a certificate issued by an institution of higher education in the European Higher Education Area that entitle the issuing country for access to Master's teachings. Also, can also access the graduates from educational systems outside the European Higher Education Area without the approval of their qualifications, upon verification by the University that those certify a level of education equivalent to the corresp

## **OUTCOMES**

### **LEARNING OUTCOMES**

The teaching-learning process in this matter will help the student to acquire basic skills, general and cross-listed in the general content of the Master, and in particular the development of specific skills more directly related with the following contents:

Understanding the basic concepts of Uncertainty, Probability and Sampling. The student must also understand key aspects of demography and descriptive and inferential statistics. Moreover the student must recognize the different practical situations of basic statistical analysis.

## **DESCRIPTION OF CONTENTS**

### **1. Statistics**

- Probability and Sampling.
- Descriptive statistics.
- Demographics and demographic analysis.
- Statistical Inference.
- Regression Analysis.
- Logistic regression and survival analysis.



## WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	24,00	100
Attendance at events and external activities	0,00	0
Development of group work	10,00	0
Development of individual work	10,00	0
Study and independent work	15,00	0
Preparation of evaluation activities	6,00	0
Resolution of case studies	10,00	0
<b>TOTAL</b>	<b>75,00</b>	

## TEACHING METHODOLOGY

Theoretical lessons

Resolution of practical cases

Resolution of problems

Work aided in computer classroom

Work in groups tutorized

Projects development

## EVALUATION

Delivery and evaluation of practical exercises: 60 %

Theoretical and practical exam. Weight: 40 %

Attendance and participation in classes will be considered with a valuation of up to half of the exam evaluation.

## REFERENCES

### Basic

- Armitage, P. y Berry, G. (1997). Estadística para la Investigación Biomédica. Ed. Doyma.
- Daniel, W.W. (1995). Bioestadística: Base para el análisis de las ciencias de la salud.. Noriega.



- Martín Andrés, A. y Luna del Castillo, J.D. (1995). 50±10 horas de bioestadística. Ed. Norma.
- Milton, J. S. (1994). Estadística para biología y ciencias de la salud. Interamericana-McGraw-Hill.

#### **Additional**

- Sokal, R.R. y Rohlf, F.J. (1995). Biometry. W.H. Freeman and Co.

#### **ADDENDUM COVID-19**

**This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council**

**English version is not available**