

Academic Year/course: 2021/22

25643 - Applied Statistics in Health Sciences

Syllabus Information

Academic Year: 2021/22

Subject: 25643 - Applied Statistics in Health Sciences

Faculty / School: 127 - Facultad de Ciencias de la Salud

Degree: 605 - Degree in Physiotherapy

ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Basic Education

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.3. Syllabus

Course description: An introduction to statistical reasoning and data analysis for the health sciences. Coverage includes descriptive statistics, probability models, point estimation, confidence intervals, and hypothesis testing. Critique of selected research articles and case studies incorporating research and evidence-based practice will be adopted to connect statistics to daily work in healthcare field. Statistical computer software (R Commander) will be extensively used for data analysis.

The course will address the following topics:

Topic 1: Introduction to statistical methods in Health Sciences. Basic terminology.

Topic 2: One-dimensional descriptive statistics.

Topic 3: Probability, random variables, and probability distributions.

Topic 4: Statistical inference: point estimation, confidence intervals, and hypothesis testing.

Topic 5: Two-dimensional statistics. Aspectos descriptivos e inferenciales.