

Teaching guide

IDENTIFICATION DETAILS

Degree:	Biomedicine		
Field of Knowledge:	Health Science		
Faculty/School:	Experimental Science		
Course:	RESEARCH METHODOLOGY AND CLINICAL EPIDEMIOLOGY		
Type:	Compulsory	ECTS credits:	4,50
Year:	3	Code:	2154
Teaching period:	Fifth semester		
Area:	Statistics		
Module:	Experimental Methodology in Biomedicine		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	112,50		

SUBJECT DESCRIPTION

This course will provide students with the necessary theoretical and practical knowledge of basic epidemiology and the scientific method necessary to carry out medical research projects. Students will become familiar with the basic tools of epidemiology to develop the scientific method and learn to interpret results and draw conclusions.

SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

General Skills

Acquire the necessary skills for analysis, criticism and synthesis applied to the issues pertaining to the field of biomedicine.

Specific skills

Understand the design of experiments on the basis of statistical criteria and the various tools available for processing data in the area of life sciences and health.

Know and apply epidemiological principles and statistical procedures in the study of health and disease of the human being in order to ensure the reliability and solidity of biomedical research results.

Desarrollar competencia para la elaboración de proyectos de investigación con rigor científico mediante técnicas y estrategias teórico-metodológicas para la solución de problemas reales en contextos académicos y profesionales

Promover la cultura de la investigación a través de la aplicación de habilidades de búsqueda de información válida , lectura y composición de estudios científicos.

Diseñar, analizar, evaluar los posibles sesgos e interpretar los resultados de los diferentes tipos de estudios.

Calcular e interpretar los índices epidemiológicos básicos y las medidas de asociación.

Realizar y redactar un proyecto de investigación.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
37 hours	75,50 hours