Universidad Francisco de Vitoria UFV Madrid

Teaching guide

IDENTIFICATION DETAILS

Degree:	Biomedicine
Field of Knowledge:	Science
Faculty/School:	Experimental Science
Course:	HUMAN GENETICS
Type:	Compulsory
ECTS credits:	4,50
Year:	3
Code:	2151
Teaching period:	Fifth semester
Area:	Genetics
Module:	Biochemistry and Molecular Biology
Teaching type:	Classroom-based
Language:	Spanish
Total number of student study hours:	112,50

SUBJECT DESCRIPTION

Human Genetics deals with variation and inheritance as it occurs in human beings. It is an essential course within the Biomedicine degree programme, firstly because it explains the genetic, polymorphic and evolutionary nature of the human being, and secondly because it will look at specific experimental methodologies that allow the study, diagnosis, prevention and design of therapies.

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

Determine patterns of inheritance through the genetic analysis of pedigrees.

Identify the major components of the organisation of a gene and the human genome, including elements of control of gene expression.

Learn to interpret the regulation of gene expression in the context of embryonic development.

Learn the techniques of cytogenetic and molecular diagnosis, understanding the interpretation of the results given.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
45 hours	67,50 hours