

## IDENTIFICATION DETAILS

Degree:	Pharmacy		
Scope	Pharmacy.		
Faculty/School:	Experimental Science		
Course:	PHARMACEUTICAL CHEMISTRY II		
Type:	Compulsory	ECTS credits:	3
Year:	4	Code:	2543
Teaching period:	Eighth semester		
Area:	Chemistry		
Module:	Tutored Work Placement and End-of-Degree Project		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	75		

## SUBJECT DESCRIPTION

El principal objeto de estudio de la Química Farmacéutica es entender la relación existente entre la estructura química de los principios activos (fármacos) con todos los aspectos relacionados con su actividad farmacológica (propiedades fisicoquímicas, farmacocinética, metabolismo, etc). Por esta razón, para el estudiante del Grado de Farmacia, el estudio de la Química Farmacéutica se convierte en una de las piezas clave para entender el mecanismo de acción y las relaciones estructura-actividad de los fármacos. Posteriormente, este conocimiento se puede aplicar al diseño de nuevas entidades farmacológicamente activas, mediante la realización de cambios estructurales con el fin de modular dichas propiedades. Las disciplinas científicas relacionadas con la Química Farmacéutica son, por orden de importancia:

- 1) Química Orgánica
- 2) Farmacología
- 3) Bioquímica

### Cross Skills

To nurture an attitude of intellectual curiosity and a quest for truth in all areas of life.

To be able to approach a subject by means of rigorous, profound and comprehensive thought.

To be able to apply the theoretical knowledge learnt in the of solving problems and practical cases linked to the various subjects.

### LEARNING RESULTS

To identify, design, obtain, analyse and produce active ingredients, drugs and other products and materials of interest to the field of healthcare.

To estimate the risks linked to the use of chemical substances and laboratory procedures.

To be familiar with the physical and chemical characteristics of substances used to manufacture medication.

To be familiar with and understand the main characteristics of elements and their compounds, as well as their application in the pharmaceutical sphere.

To be familiar with and understand the nature and operation of functional groups in organic molecules.

To be familiar with the origin, nature, design, obtainment, analysis and control of medication and medicinal products.

### DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
34,50 hours	40,50 hours