

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Biotechnology
Course:	Organic Chemistry
Module:	Chemistry for the Molecular Biosciences
Department:	Physical, Chemical and Natural Systems
Academic Year:	2017-18
Term:	Second
ECTS credits:	6
Year:	1st year
Type:	Basic
Language:	Spanish

Course Model:	B1	
a. Basic learning (EB):		60 %
b. Practical learning (EPD):		40 %

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2. LECTURERS

Coordinator	
Name:	Ana Paula Zaderenko Partida
School:	School of Experimental Sciences
Department:	Physical, Chemical and Natural Systems
Area:	Physical Chemistry
Office Hours:	Mondays and Tuesdays: 11.00-14.00 h
Office:	22.3.12
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3. TOPICS

Unit 1. Introduction and basic concepts.

Unit 2. Unsaturated organic compounds: alkenes and alkynes.

Unit 3. Aromatic organic compounds.

Unit 4. Heterocyclic organic compounds.

Unit 5. Halogenated organic compounds.

Unit 6. Alcohols, thiols and derivatives.

Unit 7. Nitrogen compounds. Amines and amine-related compounds.

Unit 8. Aldehydes and ketones.

Unit 9. Carboxylic acids and derivatives.

Practices

Practice 1. Chemical identification of the main functional groups.

Practice 2. Chirality. Management of molecular models.

Practice 3. Introduction to chromatography.

Practice 4. Synthesis and purification of organic compounds I.

Practice 5. Synthesis and purification of organic compounds II.

Practice 6. Structure and reactivity of organic compounds. Resolution of problems.

The sessions will last 3 hours, and will be held in the laboratories of Physical Chemistry on the dates specified in the syllabus.