



ORGANIC CHEMISTRY (SURNAME A-K)

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	CHIM/06 (ORGANIC CHEMISTRY)
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	BIOLOGICAL SCIENCES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(01/03/2022 - 14/06/2022)
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	MELLA MARIELLA - 6 ECTS
Prerequisites	A good knowledge of the main principles of general chemistry is required.
Learning outcomes	The students will acquire the skills necessary for the understanding of the structures, properties and reactivity of organic compounds and biomolecules that they often meet during their further studies.
Course contents	The aim of the course is to give the basic principles of organic chemistry through an overview on the structure and reactivity of the main classes of organic compounds: aliphatic and aromatic hydrocarbons, organic halides, alcohols, ethers, carbonyl compounds, amines, carboxylic acids and their derivatives. A special attention is dedicated to the stereochemical features of the compounds. Some of the most significant reaction mechanisms are described. An overview on the main classes of biomolecules, carbohydrates, aminoacids and proteins, nucleic acids,

	lipids, concludes the course.
Teaching methods	Lectures and tutorials.
Reccomended or required readings	<p>W. H. Brown, T. Poon, Introduzione alla Chimica Organica, V ed., EdiSES.</p> <p>L. G. Wade, Jr. Fondamenti di Chimica Organica, Piccin.</p> <p>H. Hart, L. E. Craine, D. J. Hart, C. M. Hadad, Chimica Organica, Zanichelli.</p> <p>J. McMurry, Chimica Organica. Un approccio biologico, Zanichelli.</p>
Assessment methods	Written examination with exercises and questions on all the topics covered during the course.
Further information	Written examination with exercises and questions on all the topics covered during the course.
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile