



GENERAL BIOLOGY, HUMAN ANATOMY AND PHYSIOLOGY

Enrollment year	2017/2018
Academic year	2018/2019
Regulations	DM270
Academic discipline	BIO/06 (COMPARATIVE ANATOMY AND CYTOLOGY)
Department	DEPARTMENT OF PHYSICS
Course	
Curriculum	Fisica biosanitaria
Year of study	2°
Period	1st semester (01/10/2018 - 18/01/2019)
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	NANO ROSANNA (titolare) - 3 ECTS FACOETTI ANGELICA - 3 ECTS
Prerequisites	Understanding the course topics requires knowledge of the basic concepts of cell and tissue biology at high school level.
Learning outcomes	Learning of basic concepts of Biology, Anatomy and Physiology
Course contents	<p>Cells are an organism's basic units of structure and function.</p> <p>Organization of the Prokaryotic and eukaryotic cells</p> <p>The structural basis of the cellular information: DNA, chromosomes, mitosis and meiosis, RNA and protein synthesis. DNA damage and repair mechanisms.</p> <p>The key roles of cell division; Apoptosis (programmed cell death), necrosis.</p> <p>Techniques of morphological and immunohistochemical staining.</p> <p>Epithelial, connective, muscular, nervous tissue.</p> <p>Bone marrow, blood cells and immune system cells.</p>

	Nervous system, digestive system, respiratory system. Definition of tumor cell. Virus and prions.
Teaching methods	=Frontal lectures and lab experiences.
Reccomended or required readings	Istologia (Ed Piccin) per i corsi di laurea in professioni Sanitarie S.Adamo, P.Comoglio, M.Molinaro,G.Siracusa.M.Stefanini, E.Ziparo.
Assessment methods	The oral exam is aimed to understand the main mechanisms of cellular duplication (mitosis, meiosis), DNA damage and repair and cellular transformation in tumors.
Further information	Guided visit to CNAO
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile