



KIDNEY PHYSIOLOGY	
Enrollment year	2020/2021
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/09 (PHYSIOLOGY)
Department	DEPARTMENT OF INTERNAL MEDICINE AND THERAPEUTICS
Course	MEDICINE AND SURGERY
Curriculum	PERCORSO COMUNE
Year of study	2°
Period	1st semester (27/09/2021 - 14/01/2022)
ECTS	3
Lesson hours	24 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	GASTALDI GIULIA (titolare) - 3 ECTS
Prerequisites	To take the examination of Physiology it is appropriate to possess knowledge of scientific methodology, chemistry, physics, biology, histology and anatomy, English language.
Learning outcomes	The integrated course of Human Physiology is aimed at leading the student to learn the vital processes that take place at the cellular level when various groups of cells organize themselves to form specific tissues and organs in the human species. At the end of the lessons of the integrated course, the student will have acquired fundamental knowledge about the functioning of the major organs and systems of the human body, their complex reciprocal relationships and the control systems that regulate their activity. The course also deals with human nutrition and energy metabolism and health physics topics.
Course contents	Body fluids - Anatomy and blood supply - Renal clearance - Glomerular filtration -

	Reabsorption and secretion - Sodium balance - Potassium balance - Phosphate, calcium and magnesium balance - Water balance: concentration and dilution of urine - renal mechanism in acid-base balance - Urination
Teaching methods	Lectures
Reccomended or required readings	<ul style="list-style-type: none"> - Fisiologia - Berne e Levy (a cura: Koeppen e Stanton), Ed. Ambrosiana, VI edizione italiana (2010); - Fisiologia Medica - (a cura di F. Conti), Ed. Edi-Ermes, III edizione (2020) - Fisiologia Medica di Ganong (a cura di KE Barrett et al.), Ed. Piccin, XII edizione italiana (2011) - Fisiologia Medica - Guyton e Hall, Ed. Elsevier, XII edizione (2011)
Assessment methods	The final exam will be wrtitten and oral
Further information	
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile