



HUMAN PHYSIOLOGY	
Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	BIO/09 (PHYSIOLOGY)
Department	DEPARTMENT OF CLINICAL-SURGICAL, DIAGNOSTIC AND PEDIATRIC SCIENCES
Course	CARDIOCIRCULATORY AND CARDIOVASCULAR PERFUSION TECHNIQUES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(01/10/2020 - 22/01/2021)
ECTS	3
Lesson hours	24 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	BROCCA LORENZA - 3 ECTS
Prerequisites	The student is required to have good knowledge in: - mathematics, physics, chemistry and biochemistry - anatomy and histology
Learning outcomes	The course is devoted to explain the main functions of the organs and apparatus of the human body as well as their overall relationships in the life of the subject.
Course contents	Cell Physiology Basic mechanisms of cell life, transmembrane transports of ions and solutes - Basic mechanisms of neuron and muscle cell physiology Graded potentials and action potentials. Functional anatomy of synapses.

	Muscle contraction. Receptors and signal transduction pathways. - Functional anatomy of the Nervous System - Respiratory Physiology - Physiology of the Gastrointestinal System - Kidney Physiology - Cardiovascular Physiology The heart and the circulatory system. - Physiology of the Endocrine System
Teaching methods	The course is organized in hall lessons carried out by PowerPoint presentations
Reccomended or required readings	- "BERNE & LEVY - FISIOLOGIA" (a cura di KOEPPEN B.M. – STANTON B.A.) VI EDIZIONE (2010), CASA EDITRICE AMBROSIANA (MILANO) - STANFIELD C.L. – GERMAN W.J. "FISIOLOGIA" III EDIZIONE (2009), EDISES (NAPOLI) - SILVERTHORN D.U. "FISIOLOGIA: UN APPROCCIO INTEGRATO" V EDIZIONE (2010), PEARSON ITALIA (MILANO, TORINO) FISIOLOGIA UMANA ELEMENTI edi-ermes PRINCIPI DI FISIOLOGIA - II Edizione. EdISES Università "VANDER – FISIOLOGIA" (a cura di WIDMAIER E.P. et al.) I EDIZIONE (2011), CASA EDITRICE AMBROSIANA (MILANO)
Assessment methods	L'esame finale, volto ad accertare le conoscenze acquisite durante il corso, consisterà in una prova scritta costituita da domande a scelta multipla sugli argomenti del programma svolto a lezione.
Further information	
Sustainable development goals - Agenda 2030	\$ibl_legenda_sviluppo_sostenibile