



HUMAN PHYSIOLOGY	
Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	NURSING
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	2nd semester (01/03/2021 - 30/06/2021)
ECTS	3
Language	Italian
Prerequisites	The student is required to have good knowledge in: - mathematics, physics, chemistry and biochemistry - anatomy and histology this at the level of the courses defined as preliminary to the exam of Human Physiology
Learning outcomes	The student is required to have good knowledge in: - mathematics, physics, chemistry and biochemistry - anatomy and histology this at the level of the courses defined as preliminary to the exam of Human Physiology
Course contents	<ul style="list-style-type: none">- 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 and Nutrition
Motility. Secretion, Digestion and Absorption of nutrients.
- Kidney Physiology
- Cardiovascular Physiology
The heart and the circulatory system.
- Physiology of the Endocrine System

Teaching methods

Il corso è organizzato in lezioni frontali svolte mediante presentazioni (PowerPoint) proiettate su schermo.

Reccomended or required readings

Principi di Fisiologia- Zocchi-Edises
Fisiologia umana Silverthorn Casa Editrice Ambrosiana
Fisiologia umana Germann –Stanfield EdiSES
Principi di Fisiologia Berne – Levy Casa Editrice Ambrosiana
Fisiologia Linda S. Costanzo EdiSES

Assessment methods

The final exam, will aim to asses the knowledge acquired during the course and will consist in a multiple choice written test.

The activity is split

500312 - **HUMAN PHYSIOLOGY** (Sede di VIGEVANO)

500312 - **HUMAN PHYSIOLOGY** (Sede di PAVIA)

500312 - **HUMAN PHYSIOLOGY** (Sede di ISTITUTO DI CURA CITTA' DI PAVIA)



UNIVERSITÀ DI PAVIA

Anno Accademico 2020/2021

HUMAN PHYSIOLOGY	
Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	BIO/09 (PHYSIOLOGY)
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	NURSING
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(01/03/2021 - 30/06/2021)
ECTS	3
Lesson hours	45 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	BROCCA LORENZA (titolare) - 3 ECTS
Prerequisites	The student is required to have good knowledge in: - mathematics, physics, chemistry and biochemistry - anatomy and histology this at the level of the courses defined as preliminary to the exam of Human Physiology
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. It will be paid special attention to the topics mainly pertinent for nursing activity.
Course contents	- Cell Physiology Basic mechanisms of cell life, transmembrane transports of ions and solutes

	<ul style="list-style-type: none"> - 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 and Nutrition Motility. Secretion, Digestion and Absorption of nutrients. - 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	<ul style="list-style-type: none"> - "BERNE & LEVY - FISIOLOGIA" (KOEPPEN B.M. – STANTON B.A., eds.) 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) <p>FISIOLOGIA UMANA ELEMENTI edi-ermes</p> <p>PRINCIPI DI FISIOLOGIA - II Edizione. EdiSES Università</p> <ul style="list-style-type: none"> - "VANDER – FISIOLOGIA" (WIDMAIER E.P. et al., eds.) I EDIZIONE (2011), CASA EDITRICE AMBROSIANA (MILANO)
Assessment methods	The final exam, will aim to asses the knowledge acquired during the course and will consist in a multiple choice written test.
Further information	No items
Sustainable development goals - Agenda 2030	\$lbl_legenda_sviluppo_sostenibile



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