



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"		
ACADEMIC YEAR	2018/2019		
BACHELOR'S DEGREE (BSC)	HEALTHCARE ASSISTANCE		
INTEGRATED COURSE	MORPHOLOGICAL AND PHYSIOLOGICAL SCIENCES - INTEGRATED COURSE		
CODE	15870		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	BIO/09, BIO/17		
HEAD PROFESSOR(S)	LEONE ANGELO	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)	CASARRUBEA MAURIZIO	Professore Associato	Univ. di PALERMO
	LEONE ANGELO	Professore Associato	Univ. di PALERMO
CREDITS	6		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	Annual		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>CASARRUBEA MAURIZIO Thursday 10:30 12:30 Dipartimento di Biomedicina, Neuroscienze e Diagnostica Avanzata</p> <p>LEONE ANGELO Wednesday 10:00 12:00 BiND, sezione di Anatomia e Istologia, piano 1°</p>		

DOCENTE: Prof. ANGELO LEONE

PREREQUISITES	to Pass pre selection tests
LEARNING OUTCOMES	<p>Knowledge and ability 'to understand: he knows the anatomical structure and the main operating models of organs, has developed an integrated view of the main body areas which represent the target of environmental and occupational risk factors. The mode 'of knowledge occurs occur with an oral final exam.</p> <p>Capacity 'to apply knowledge and understanding</p> <p>And 'able to identify the problems related to the interaction between the morpho-physiological conditions of the organism, and the risk factors present in the general environment and in the workplace. The mode 'of knowledge occurs occur with an oral final exam.</p> <p>Making judgments</p> <p>Judgement and 'achieved through the completion of the evaluation questionnaires of the level of learning of the issues addressed in the program.</p> <p>Enable 'communication</p> <p>And 'able to demonstrate, in a clear, specific terminology through the acquired concepts, presenting the work carried out individually or in groups.</p> <p>Capacity 'Learning</p> <p>He has acquired the ability 'to supplement the human body morphology to the proper organ and tissue functioning, creating the basis for understanding the medical disciplines of the following years in the same CdS and to recognize the effects of risk factors present in the workplace .</p>
ASSESSMENT METHODS	<p>The candidate will have to answer at least two/three orally posed questions for each module that constitutes the integrated course, on all parties of the program, in compliance to the recommended texts. The final examination aims to evaluate whether the student has knowledge and understanding of the topics, has acquired the ability and independent judgment to interpret concrete cases. The sufficiency will be threshold when the student shows knowledge and understanding of the issues at least in broad outline, and has minimal application skills in order to solve concrete cases; It must also possess skill in exhibition and argumentative to allow the transmission of his knowledge to the examiner. Below this threshold, the examination will be insufficient. The more, however, the examinee with his ability 'argumentative and expository able to interact with the examiner, and the more his knowledge and ability applications go into detail of the discipline of verification, the more assessment will be positive . The assessment is carried out of thirty.</p> <p>In detail, the vote will be based on the following principles:</p> <p>Excellent (30-30 Honours) - Excellent knowledge of the topics, excellent properties of language, good capacity analytic, students and able to apply knowledge to solve problems proposed.</p> <p>Very Good (26-29) - Good knowledge of the topics, full ownership of the language, the student and able to apply knowledge to solve problems proposed.</p> <p>Good (24-25) - Basic knowledge of the main topics, discrete properties of language, with limited ability to independently apply the knowledge to the solution of the proposed problems.</p> <p>Satisfactory (21-23) - has not fully mastered the main teaching subjects but it has the knowledge, satisfactory property language, poor ability to independently apply the knowledge gained.</p> <p>Sufficient (18-20) - Minimum basic understanding of the main topics of teaching and technical languages, very little or no ability to independently apply the knowledge gained.</p> <p>Insufficient - It does not have an acceptable knowledge of the contents of the topics covered in the teaching.</p>
TEACHING METHODS	lectures on the topics listed in the program, including presentation of papers published in scientific journals and discussion.

**MODULE
HISTOLOGY WITH ELEMENTS OF HUMAN ANATOMY**

Prof. ANGELO LEONE

SUGGESTED BIBLIOGRAPHY

AA.VV. Il manuale di Istologia, Idelson-Gnocchi, Napoli, 2007.

AMBIT	10358-Scienze biomediche
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge about the ecosystem bio cell, to the organization of the four major tissues; knowledge of the main human body systems.

SYLLABUS

Hrs	Frontal teaching
3	Histological techniques.
3	Organization of the cell: chemical and functional aspects.
3	Cell organelles
3	Epithelial tissues.
3	Connective tissues: blood, bone, cartilage, dense and loose connective tissues.
3	Contractile tissues
3	T. nervous: the neuron and the Glia.
3	Skin and skeletal system
3	Cardiovascular system and respiratory system.
Hrs	Practice
3	Middle term exam

**MODULE
PHYSIOLOGY**

Prof. MAURIZIO CASARRUBEA

SUGGESTED BIBLIOGRAPHY

Germann WJ and Stanfield CL "Fisiologia umana"Edises
D.U. Silverthorn: "Fisiologia - Un approccio integrato" - Casa editrice:Ambrosiana

AMBIT	10358-Scienze biomediche
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

The proposes of the course is to provide the basic knowledge of physiology, with particular regard to cell physiology and human body systems.

SYLLABUS

Hrs	Frontal teaching
12	Nervous System: Bioelectric properties of the neuron and synaptic communication. General organization of the nervous system: Central and Autonomic Nervous System. Somatic Sensation, Vision, Hearing, Vestibular System, gustatory and olfactory perception. Physiology of Movement: Control of Movement, Motor Unit, Reflexes.
6	Cardiocirculatory System – Cardiac Mechanic. Electrical Activity of the heart. Cardiac output. Nervous and humoral control of heart. Properties and Control of circulatory system.
6	Respiratory System: Respiratory mechanism. Gaseous Exchanges. Gas transport in the blood. Regulation of breathing.
3	Kidneys and Water-electrolyte imbalance: Fluid imbalance: water and main electrolytes. Functional anatomy of kidney. Glomerular filtration. Selective Re-Absorption and Tubular Secretion. Urine formation.
3	Endocrine System: Generalities on Endocrine Organs and primary hormones.