



UNIVERSITÀ DEGLI STUDI DI PALERMO

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| DEPARTMENT | Scienze Psicologiche, Pedagogiche, dell'Esercizio Fisico e della Formazione | | |
| ACADEMIC YEAR | 2018/2019 | | |
| BACHELOR'S DEGREE (BSC) | PHYSICAL EDUCATION AND SPORT SCIENCES | | |
| INTEGRATED COURSE | HUMAN ANATOMY - INTEGRATED COURSE | | |
| CODE | 01289 | | |
| MODULES | Yes | | |
| NUMBER OF MODULES | 2 | | |
| SCIENTIFIC SECTOR(S) | BIO/16 | | |
| HEAD PROFESSOR(S) | CAPPELLO FRANCESCO | Professore Ordinario | Univ. di PALERMO |
| OTHER PROFESSOR(S) | CAPPELLO FRANCESCO | Professore Ordinario | Univ. di PALERMO |
| CREDITS | 12 | | |
| PROPAEDEUTICAL SUBJECTS | | | |
| MUTUALIZATION | | | |
| YEAR | 1 | | |
| TERM (SEMESTER) | Annual | | |
| ATTENDANCE | Not mandatory | | |
| EVALUATION | Out of 30 | | |
| TEACHER OFFICE HOURS | CAPPELLO FRANCESCO Monday 10:00 12:00 Plesso di Anatomia Umana ed Istologia, Dipartimento di Biomedicine, Neuroscienze e Diagnostica Avanzata. Wednesday 10:00 12:00 Plesso di Anatomia Umana ed Istologia, Dipartimento di Biomedicine, Neuroscienze e Diagnostica Avanzata. | | |

DOCENTE: Prof. FRANCESCO CAPPELLO

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| PREREQUISITES | Knowledge of biology |
| LEARNING OUTCOMES | <p>Students have demonstrated knowledge and understanding in a field of anatomic study that builds upon and their general secondary education, and is typically at a level that, whilst supported by advanced textbooks, includes some aspects that will be informed by knowledge of the forefront of their field of study;</p> <ul style="list-style-type: none">- can apply their knowledge and understanding in a manner that indicates a professional approach to their work or vocation, and have competences typically demonstrated through devising and sustaining arguments and solving problems within their field of anatomic study;- have the ability to gather and interpret relevant data in field of anatomic study to inform judgements that include reflection on relevant social, scientific or ethical issues;- can communicate information, ideas, problems and solutions to both specialist and non-specialist audiences about tissue, organs and systems of the human body- have developed those learning skills that are necessary for them to continue to undertake further study with a high degree of autonomy. |
| ASSESSMENT METHODS | <p>The assessment provides two moments:</p> <ol style="list-style-type: none">1) a written in itinere exam on human anatomy I2) a orale exam on human anatomy II <p>2) Written test: The exam consists in questions with multiple choice. The questions are structured so as to allow students to formulate their answers through the possibility to compare the submitted answers. Regarding oral in itinere exam, the student will have to answer at least 3-4 questions in the oral form. The exam aims at verifying knowledge of Anatomy I, interpretative competence and autonomy of judgement of concrete cases. The passing grade threshold will be considered reached if the student shows to have acquired the topics of the specific subject matter and is able to solve specific concrete cases as well as to correctly convey knowledge with satisfactory expository skills. Below the above-mentioned threshold, the exam will be considered unsatisfactory. The more the student can interact with his/her examiner showing mastery of language, of the specific subject matter and ability to convey his/her knowledge of the topics of the specific field of reference, the more the assessment will be positive. The latter will be expressed by 18 to 30-30 with honours marks.</p> <p>2) Oral exam: Regarding oral in itinere exam, the student will have to answer at least 3-4 questions in the oral form. The exam aims at verifying knowledge of Anatomy II, interpretative competence and autonomy of judgement of concrete cases. The passing grade threshold will be considered reached if the student shows to have acquired the topics of the specific subject matter and is able to solve specific concrete cases as well as to correctly convey knowledge with satisfactory expository skills. Below the above-mentioned threshold, the exam will be considered unsatisfactory. The more the student can interact with his/her examiner showing mastery of language, of the specific subject matter and ability to convey his/her knowledge of the topics of the specific field of reference, the more the assessment will be positive. The latter will be expressed by 18 to 30-30 with honours marks. The final assessment included the mean value of two exams/30. The assessment has a final grade included in the following range: 30-30 with honours (excellent), corresponding to 'excellent knowledge of topics, excellent use of language, good analytical skills, the student can implement his/her knowledge to solve the submitted issues'; 26-29 (very good), 'good mastery of topics, very good use of language, the student can implement his/her knowledge in order to solve the submitted issues'; 24-25 (good), corresponding to 'basic knowledge of the main topics, fair use of language, with moderate capability to independently implement knowledge to solve the submitted issues'; 21-23 (satisfactory), 's/he doesn't possess full mastery of the main teaching topics but s/he possesses knowledge of them, satisfactory use of language, poor capability to independently implement the acquired knowledge'; 18-20 (passing grade), 'very poor basic knowledge of both the main teaching topics and the technical skills, no or very poor capability to independently implement the acquired knowledge'; unsatisfactory, 's/he doesn't possess an acceptable knowledge of the contents of the topics dealt with during the course'.</p> |
| TEACHING METHODS | Frontal lectures, workshops, labs |

MODULE HUMAN ANATOMY I

Prof. FRANCESCO CAPPELLO

SUGGESTED BIBLIOGRAPHY

Martini F.H. e coll.: Anatomia umana. Edises,
Barni T. E coll.: Anatomia dell'apparato locomotore. Edises,
Seeley: Anatomia Umana, Vanputte Regan Russo IV edizione Idelson-Gnocchi Sorbona

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| AMBIT | 50097-Biomedico |
| INDIVIDUAL STUDY (Hrs) | 108 |
| COURSE ACTIVITY (Hrs) | 42 |

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge of anatomical structures of the human movement in order to develop skills to develop skills to plan and manage the physical activity.

SYLLABUS

| Hrs | Frontal teaching |
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| 10 | General Anatomy - . Organization of living beings and, in particular, of the human body. The systems and organ systems and their classification . The anatomical terminology of the external forms of the human body. The cavity 'bust. The anatomical position and terms of position. The terms of movement. Generality 'on the cell. Definition of tissue, organ class. The epithelial tissue and glandular epithelia. The trofomeccanici tissues. Skeletal connective tissues. The contractile tissue. The nervous tissue. |
| 4 | The bony skeleton: spine. the rib cage, the skull, the shoulder girdle and upper limb bones, pelvic girdle and lower limb bones. |
| 2 | Joints: classification and generality. |
| 2 | Morphology, architecture, classification and function of muscles.The mechanical muscle |
| 2 | Shoulder joint; movements and motor muscles. The elbow joint; movements and motor muscles |
| 2 | Radiocarpal joint and Hand joints |
| 2 | Hip joint femoral; movements and motor muscles |
| 2 | The knee joint; movements and motor muscles |
| 2 | Articulation ankle and foot joints. Movements of joints and muscles engines |
| 2 | The joints of the spine; movements and motor muscles |
| 6 | The circulatory system. The heart, arteries, veins, capillaries. The largest circulation, the small circulation, fetal circulation. The lymph, lymph vessels and lymph nodes. bone marrow, spleen, thymus. |
| 4 | The respiratory system The airways: nose, nasopharynx, larynx, trachea and bronchi. The bronchioles. The lungs and lung hierarchies. Lung structure. The pleura. |
| 2 | Skin and appendages. |

MODULE HUMAN ANATOMY II

Prof. FRANCESCO CAPPELLO

SUGGESTED BIBLIOGRAPHY

Martini F.H. e coll.: Anatomia umana. Edises,
Barni T. E coll.: Anatomia dell'apparato locomotore. Edises,
Seeley: Anatomia Umana, Vanputte Regan Russo IV edizione Idelson-Gnocchi Sorbona

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|-------------------------------|-----------------|
| AMBIT | 50100-Biologico |
| INDIVIDUAL STUDY (Hrs) | 108 |
| COURSE ACTIVITY (Hrs) | 42 |

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge of anatomical structures of the human movement in order to develop skills to develop skills to plan and manage the physical activity.

SYLLABUS

| Hrs | Frontal teaching |
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| 6 | The digestive system. Oral cavity. The pharynx. The alimentary canal: esophagus, stomach, small and large intestines. structural organization of the alimentary canal. Liver and pancreas. |
| 8 | The urogenital tract. Kidney and the urinary tract. Structural organization. The gonad and genital tract in male. The gonad and genital tract in women. |
| 2 | Morphology of the neuraxis and roofing membranes. The nevrassiali cavity and the cerebral spinal fluid |
| 2 | The spinal cord and the brain |
| 2 | Structural organization of the central nervous system. The spinal nerve. II spinal reflex. The organization of the gray truncal |
| 2 | Sensory systems of the spinal nerves and cranial nerves |
| 2 | The receptors. The sensory system exteroceptive (epicritic and protopathic) |
| 2 | Conscious and unconscious proprioceptive system. The interoceptive system |
| 2 | The motor function: morphological bases |
| 2 | The pyramidal system |
| 2 | The extrapyramidal system |
| 2 | Sympathetic and parasympathetic vegetative system |
| 2 | The olfactory sensory systems, optical, acoustic and state-taste |
| 6 | The endocrine system. The pituitary and pineal gland, thyroid and parathyroid. Pancreatic islets. The adrenal glands. |