

General Information	
Academic subject	HUMAN ANATOMY
Degree course	Natural and Environmental Sciences
Curriculum	
ECTS credits	3
Compulsory attendance	yes
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Mariasevera Di Comite	mariasevera.dicomite@uniba.it	BIO/16

ECTS credits details	Area		CFU/ETCS
Basic teaching activities	05		

Class schedule	
Period	1st semester
Year	II
Type of class	LECTURES

Time management	
Hours	
In-class study hours	24
Out-of-class study hours	

Academic calendar	
Class begins	12 OCTOBER 2020
Class ends	17 NOVEMBER 2021

Syllabus	
Prerequisites/requirements	KNOWLEDGE OF HISTOLOGY
Expected learning outcomes	<ul style="list-style-type: none"> • Knowledge and understanding: Acquisition of theoretical and practical skills on the macroscopic, microscopic and functional characteristics of the human body's organs and their relationships. These skills will be acquired thanks to the attendance of lessons AND individual study. • Applied knowledge and understanding: The Human Anatomy course provides for students' compulsory participation in the lessons in which, under the teacher's constant guidance, students acquire methodological application skills. • Autonomy of judgment The student will have to express independent judgment in the ability to analyze the functional and dysfunctional interactions of the various structures of human anatomy envisaged in the study program, useful for facing a critical evaluation of the concepts or problems that come to his attention. • Communication skills

The student must have achieved the appropriate communication skills to be able to present descriptive and problematic aspects related to the structures of human anatomy clearly and concisely with appropriate scientific language (in both oral and written form), also valid for presentations aimed at "Non-experts."

- Ability to learn

The ability to use teaching material for a critical and reasoned study is expected, ultimately evolving towards acquiring the ability to investigate and update independently, by reading texts and scientific articles, issues relating to the structures of human anatomy.

Contents	<p>ORGANIZATION OF THE HUMAN BODY - General principles of Anatomy. Three-dimensional organization of the human body: planes of spatial orientation. Anatomical terminology. Movements and displacements in space. Parts and regions of the body, body cavities. Generalities on organs and systems. The general structure of the hollow organs and parenchymatous organs.</p> <p>LOCOMOTOR SYSTEM - Hard connective tissue: histology of bone and cartilage tissue. Morphofunctional characteristics of compact and spongy bone tissue. Bone growth and remodeling, calcium homeostasis. Membranous and endochondral ossification. Axial skeleton and appendicular skeleton. The joints: synarthrosis, amphiarthrosis and diarthrosis. Classifications of diarthrosis based on the shape of the articular surfaces. The structure of the articular cartilage. Organization and morpho-functional characteristics of striated muscle tissue. Fast and slow-twitch muscle fibers. Cardiac smooth and striated muscle.</p> <p>Skeleton of the head: bones of the neurocranium, bones of the facial mass (splanchnocranium). Vertebral column: cervical, thoracic, lumbar vertebrae, sacrum and coccyx.</p> <p>Skeleton of the upper limb: shoulder girdle, arm and forearm, hand. Skeleton of the lower limb: pelvic girdle (pelvis), thigh, leg and foot.</p> <p>NERVOUS SYSTEM - Generalities on the nervous system: neuron theory, types of sensitivity, division of the central nervous system. Histology of nervous tissue: neurons and glial cells. The synapses. The meninges, the cerebral ventricles and the cerebrospinal fluid. Structure of gray matter and white matter. The spinal cord. The reflections. Spinal nerves. Notes on ascending and descending nerve pathways.</p>
Course program	
Bibliography	<p>Castano P. e Donato R.F. Anatomia Dell'Uomo Edi-ermes Elaine N Marieb Elementi di anatomia e fisiologia dell'uomo Zanichelli Barbatelli e altri Anatomia Umana Fondamenti Edi-ermes (In place of Ambrosi's book) Seeley, Stephens,Tate Anatomia (II edizione) Idelson-Gnocchi Bareggi Anatomia Umana Idelson-Gnocchi Tillmann B.N.</p>

	Atlante di Anatomia Umana Zanichelli Martini Anatomia Umana EdiSES
Notes	None
Teaching methods	<p>The course aims to provide the student with knowledge about the morphology, topography and function of the musculoskeletal system and general information on the central and peripheral nervous system.</p> <p>It is organized in lectures (3 CFU), during which the teacher uses PowerPoint presentations and uses anatomical models of the structures treated. Some lessons will also be dedicated to the study of three-dimensional anatomy, using dedicated software. During the course, the teacher-student dialogue will be encouraged for clarification and further information on the topics covered.</p>
Assessment methods	<ul style="list-style-type: none"> • Oral examination • Ongoing test (optional)
Evaluation criteria	<ul style="list-style-type: none"> • The Human Anatomy exam consists of the description of the morphological and functional characteristics of the anatomical structures provided for in the study program. The evaluation criteria take into account the degree of knowledge of the subject, the clarity of the exposition, the property of language, the use of anatomical terminology and the ability to establish logical connections between topics.
Further information	none