



General information	
Academic subject	Human Anatomy (CI) Anatomy, General Pathology and Medical Terminology (10CFU)
Degree course	Pharmaceutical Chemistry and Technology
Year of study	FIRST
European Credit Transfer and Accumulation System (ECTS)	5 CFU
Language	ITALIAN
Academic Year	2021/2022
Academic calendar (starting and ending date)	November 2021 – May 2022
Attendance	Yes

Professor/ Lecturer	
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Virtual headquarters	Codice teams: 8qj5x9b
Tutoring (time and day)	Every day (by appointment via email)

Syllabus	
Learning Objectives	The master's degree program in Pharmaceutical Chemistry and Technology aims to train graduates with theoretical and experimental chemical, pharmacological, technological and regulatory knowledge and skills useful for operating, in roles of responsibility and coordination, in all public and private individuals directly or indirectly related to the design, development, production, control and marketing of medicines and health products. The course also provides preparation for the profession of pharmacist in the territorial and hospital environment and for that of medical-scientific informant. In particular, the course aims to train professional figures capable of satisfying, thanks to their multidisciplinary skills, the needs of the pharmaceutical, cosmetic, medical devices and food supplements industrial sector, as well as public and private research and regulation of the health area, taking into particular account the need for both therapeutic and production innovation, typical of the sector.
Course prerequisites	Basic knowledge of the morpho-functional characteristics of the animal cell, and of cellular and molecular biology
Contents	Organization of the human body. The ways of organizing the tissues: lining and glandular epithelia; connective tissues proper and adipose tissue; supporting tissues, cartilage and bone; blood and lymph; muscle tissue: skeletal, cardiac and smooth; nerve tissue. Anatomical terminology, epithelial and connective membranes of the body, body cavities, structure of hollow and full organs. Integumentary system: skin and skin appendages. Locomotor system: Organization and morphofunctional characteristics of bones, joints and muscles Cardiovascular system: location, structure and functions of the heart, the pericardium; general information on large and small circulation; the aorta and its main arterial branches; main veins of the venous circulation; structure of blood vessels. Lymphatic system: structure and function of the lymphatic vessels and lymphoid organs, organization of the lymphatic circulation.



	<p>Respiratory system: structures and function of the airways and lungs. The pleurae. Digestive system: structure and function of the digestive tract and related glands; the peritoneum. Uropoietic system: macroscopic, microscopic anatomy and function of the kidney and urinary tract. Reproductive system: general organization of the male and female genital system. Endocrine system: location, structure and function of the endocrine glands. Nervous system: organization of the central nervous system (CNS) and peripheral (PNS). General organization and function of the spinal cord, brain stem, cerebellum, diencephalon and telencephalon. Meninges, cerebral ventricles and CSF. General information on the spinal and cranial nerves. Vegetative nervous system: notes on the organization of the sympathetic and parasympathetic. Sense organs: General information on the organization and function of the visual and auditory apparatus.</p>
Books and bibliography	<p>Barbatelli G. – Anatomia Umana- Edi-ermes McKinley – O’Loughlin – Michetti - Anatomia Umana- Editore: Piccin Martini – Anatomia Umana – Edises Bernhard N. Tilmann - Atlante di Anatomia Umana Zanichelli Anastasi G.- Atlante di Anatomia Umana –Edi-ermes</p>
Additional materials	<p>Integration with teaching material of the lessons made available by the teacher Consultation of websites</p>

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
125	50		75
ECTS			
5			
Teaching strategy		Theoretical frontal lessons supported by the use of power point presentations.	
Expected learning outcomes			
Knowledge and understanding on:		<p>The aim of the course is to provide the student with the basic knowledge to describe:</p> <ul style="list-style-type: none"> ○ the general constructive principles of the human body ○ the organization of organs and systems ○ the topographical relationships between the various organs of the human body ○ the relationship between the different anatomical structures and the functions they perform 	
Applying knowledge and understanding on:		<p>The aim of the course is to provide the student with the knowledge of the microscopic and macroscopic organization of the different structures of the different organs useful for understanding the complexity of the systems and apparatuses of the human body as well as their functions, allowing the student to face the subsequent courses in the biological area.</p>	
Soft skills		<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <p>The student must be able to recognize the organs of the human body, acquiring critical skills relating to the structural organization of the various systems of the human body and their function in order to understand the relationship between</p>	



	<p>structure and function of the organs and be able to evaluate and interpret any anomalies affecting organs and systems.</p> <ul style="list-style-type: none">• <i>Communicating knowledge and understanding</i> <p>The student must be able to present the knowledge acquired through an appropriate use of anatomical terminology that will be useful in professional practice.</p> <ul style="list-style-type: none">• <i>Capacities to continue learning</i> <p>The lessons of the course are intended to provide the student with a study method that allows the ability to develop an independent study and the ability to continuously update their knowledge using also supplementary sources not necessarily provided by the teacher.</p>
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Assessment and feedback	
Methods of assessment	Oral examination
Evaluation criteria	<ul style="list-style-type: none">• <i>Knowledge and understanding</i> <p>The student must demonstrate knowledge and understanding of the topographical position, organization and morpho-functional characteristics of the organs and systems of the human body.</p> <ul style="list-style-type: none">• <i>Applying knowledge and understanding</i> <p>It will be considered during the assessment of the student's ability to have acquired skills and tools to demonstrate autonomy of judgment and to allow independent study.</p> <ul style="list-style-type: none">• <i>Autonomy of judgment</i> <p>The student must show that he is able to identify the functional correlations between several organs, to expose and synthesize in a logical way the relevant information relating to the organ in question.</p> <ul style="list-style-type: none">• <i>Communicating knowledge and understanding</i> <p>The property of language that the student will be able to show in relation to the topics covered will be considered. The student will have to show presentation skills and synthesis skills by adopting precise and adequate terminology in the description of the structures of the human body</p> <ul style="list-style-type: none">• <i>Capacities to continue learning</i> <p>The student will have to demonstrate that he has acquired a basic knowledge of the microscopic structure and the macroscopic structure of the organs and systems of the human body, demonstrating that he is able to describe the topics also in a functional and autonomous way.</p>
Criteria for assessment and attribution of the final mark	<p>The assessment of profit is aimed at verifying the level of knowledge of the topics covered in the course. The correct understanding of the question and the analytical development capacity of the answer will be assessed, including the ability to reason, which highlights the ability to integrate structure and function into the various components of the organism. Furthermore, the ability to elaborate and operate connections between the subjects of the discipline will be evaluated.</p>
Additional information	

Antonio Conicelli