



# UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata		
ACADEMIC YEAR	2023/2024		
MASTER'S DEGREE (MSC)	MEDICINE AND SURGERY		
INTEGRATED COURSE	HUMAN ANATOMY I - INTEGRATED COURSE		
CODE	23493		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	BIO/16		
HEAD PROFESSOR(S)	BARONE ROSARIO	Professore Associato	Univ. di PALERMO
	CAPPELLO FRANCESCO	Professore Ordinario	Univ. di PALERMO
	RAPPA FRANCESCA	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)	BARONE ROSARIO	Professore Associato	Univ. di PALERMO
	MARINO GAMMAZZA ANTONELLA	Professore Associato	Univ. di PALERMO
	CAPPELLO FRANCESCO	Professore Ordinario	Univ. di PALERMO
	PITRUZZELLA ALESSANDRO	Ricercatore a tempo determinato	Univ. di PALERMO
	RAPPA FRANCESCA	Professore Associato	Univ. di PALERMO
CREDITS	10		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p><b>BARONE ROSARIO</b> Friday 11:00 13:00 Sezione Anatomia Umana e Istologia, Dipartimento Bionec</p> <p><b>CAPPELLO FRANCESCO</b> 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.</p> <p><b>MARINO GAMMAZZA ANTONELLA</b> Monday 15:00 17:00 Dipartimento Bind, Istituto di Anatomia Umana ed Istologia, Via del Vespro 129, 90127, Policlinico, Palermo Tel. +39 09123865823</p> <p><b>PITRUZZELLA ALESSANDRO</b> Monday 11:00 14:00 Dipartimento Bionec, Sezione di Anatomia Umana Normale . Policlinico Via del vespro 129</p> <p><b>RAPPA FRANCESCA</b> Monday 10:00 12:00 Si riceve soltanto con prenotazione tramite email Wednesday 10:00 12:00 Si riceve soltanto con prenotazione tramite email</p>		

<b>PREREQUISITES</b>	In order to understand the topics included in this module and reach the teaching objectives, the student must acquire knowledge on the structure and the ultrastructure of cells, tissue organization, and the evolution of the various stages of embryonic and fetal development. Moreover, the student must have a clear anatomical foundation from a systematic, topographic, macroscopic and microscopic point of view, on the composition of the chest walls and of the thoracic organs, neck and limbs, abdomen and pelvis, including the vascular and nerve structures, as well as the main changes set off by aging.
<b>LEARNING OUTCOMES</b>	<p>Knowledge and understanding: Acquisition of knowledge on the structural hierarchies of the human body and their topographic distribution. Discerning the structural characteristics at various levels of the chest wall, neck and limbs, as well as the cardiovascular, respiratory and lymphatic systems. Acquisition of knowledge on the skull, abdominal and pelvic regions; discerning the structural and ultrastructural characteristics of the organs and systems under study. Understanding organogenesis and changes determined by aging.</p> <p>Capacity to apply knowledge and understanding: Capacity to independently identify the location, profile and relation of the organs under study with both traditional and more recently introduced image analysis techniques. Ability to examine and diagnose organs through the study of their microscopic structure.</p> <p>Independent analytic ability: Ability to evaluate the implications and consequences of structural changes within the organs and anatomical regions under study.</p> <p>Communication ability: Ability to describe and comment on the results of topographic and systematic studies, and to interact with colleagues.</p> <p>Learning capacity: Capacity to keep up to date through consultation of scientific publications in the appropriate field using internet. Capacity to complete medical studies using the knowledge acquired during this course.</p>
<b>ASSESSMENT METHODS</b>	<p>Oral examination, aimed to ascertaining the acquisition of competence and knowledge on the module topics. Evaluation is expressed through a 30-point grading scale. The candidate will be asked a minimum of two questions, the first one on a wider subject, in order to verify the knowledge acquired, analytic skills, and possession of adequate expressive ability. However, in case of significant incompetency on fundamental topics by the examinee, the exam can be interrupted even after a single question. Grade: 30 - 30 Cum Laude Rating: EXCELLENT (ECTS grade A-A+ excellent) Outcome: excellent knowledge of the module content; the student shows outstanding analytic and synthetic abilities and is able to apply the acquired knowledge to solve extremely complex problems. Grade: 27 – 29 Rating: VERY GOOD (ECTS grade B very good) Outcome: very good knowledge of the module content and terminology; the student displays clear analytic and synthetic abilities and is able to apply the acquired knowledge to solve intermediate complex problems and, in certain cases, highly complex ones. Grade: 24 – 26 (ECTS grade C Good) Rating: GOOD Outcome: good knowledge of the module content and terminology; the student is able to apply the acquired knowledge to solve intermediate complex problems. Grade: 21 – 23 (ECTS grade D satisfactory) Rating: SATISFACTORY Outcome: satisfactory knowledge of the module content, in certain cases limited to the main topics; the student shows an acceptable degree of ability for using appropriate terminology and for independent application of the acquired knowledge. Grade: 18 – 20 (ECTS grade E sufficient) Rating: SUFFICIENT Outcome: minimal knowledge of the module content, often limited to the main topics; the student shows a moderate degree of ability for using appropriate terminology and for independent application of the acquired knowledge. Grade: 1- 17 Rating: INSUFFICIENT (EXAM FAILED) (ECTS grade F Fail) Outcome: the student does not possess an acceptable degree of knowledge on the main topics of the module; he/she shows very little or no ability for using appropriate terminology and for independent application of the acquired knowledge.</p>
<b>TEACHING METHODS</b>	Lectures

<b>PREREQUISITES</b>	In order to understand the topics included in this module and reach the teaching objectives, the student must acquire knowledge on the structure and the ultrastructure of cells, tissue organization, and the evolution of the various stages of embryonic and fetal development. Moreover, the student must have a clear anatomical foundation from a systematic, topographic, macroscopic and microscopic point of view, on the composition of the chest walls and of the thoracic organs, neck and limbs, abdomen and pelvis, including the vascular and nerve structures, as well as the main changes set off by aging.
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<b>TEACHING METHODS</b>	Lectures

## MODULE MODULE I

*Prof. ALESSANDRO PITRUZZELLA - Sede HYPATIA, - Sede HYPATIA*

### SUGGESTED BIBLIOGRAPHY

Anatomia del Gray – Le basi anatomiche della pratica clinica – Elsevier 2022; ISBN: 9788821454929

Anatomia Umana- basato sul Prometheus di M. Schünke, E. Schulte e U. Schumacher\_ EdiSES, 2021 ISBN: 978-8836230532

Anatomia clinica, Ellis, Idelson-Gnocchi, ISBN:9788879476850

<b>AMBIT</b>	50424-Morfologia umana
<b>INDIVIDUAL STUDY (Hrs)</b>	75
<b>COURSE ACTIVITY (Hrs)</b>	50

### EDUCATIONAL OBJECTIVES OF THE MODULE

The overall objective of this course is to provide a systematic and topographic anatomical overview of the structure of the chest wall, neck and limbs, including the vascular and nerve structures, as well as the main changes that occur with aging. The course also will provide the morphologic and topographic foundations on the cardiovascular, respiratory and lymphatic systems. The specific aim is to achieve a good level of knowledge on the topographic, macroscopic, microscopic and ultrastructural characteristics of the chest, neck, limbs, heart, blood vessels, airways, lungs and lymphatic system. The main objective is to acquire pathophysiological analytic abilities, also through the use of methodological tools of evidence-based medicine.

## SYLLABUS

Hrs	Frontal teaching
2	Introduction to Human Anatomy. Anatomical terminology
2	Overview on skeletal segments: classification, structure and growth.
2	Overview on joints.
2	Overview on skeletal muscles.
6	Upper limb.
6	Lower limb.
3	Spine.
2	Neck.
2	Chest wall.
2	Mediastinum.
1	Pleural cavities.
1	Lower airways
2	Lungs
1	Pericardium.
6	Heart
2	Structure of blood vessels.
2	Arterial tree
2	Venous tree.
1	Lymphopoietic system.
1	Thymus gland.
1	Lymph nodes.
1	Lymphatic vessels.

## MODULE MODULE II

*Prof. FRANCESCO CAPPELLO - Sede HYPATIA, - Sede HYPATIA*

### SUGGESTED BIBLIOGRAPHY

Anatomia del Gray-Le basi anatomiche della pratica clinica. Elsevier 2022 ISBN: 9788821454929;  
Anatomia Umana - opera basata sul Prometheus di M. Schünke, E. Schulte e U. Schumacher, tre volumi, EdiSES 2021, ISBN: 978-8836230532  
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<b>AMBIT</b>	50424-Morfologia umana
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### EDUCATIONAL OBJECTIVES OF THE MODULE

The overall objective of the module is to provide the student with anatomical foundation on the characteristics of the abdominopelvic cavity from an organogenetic, systematic and topographic point of view, both macroscopic and microscopic knowledge on the digestive, urinary and reproductive (both male and female) systems, as well as on the main changes related to aging.

The specific objective is to achieve a good understanding of the organizational levels the digestive, urinary and reproductive (both male and female) systems, with particular emphasis on the relationships between the walls of the cavities and the viscera within, and on the functional aspects of the morphological knowledge.

The main objective is to acquire analytical pathophysiological and clinical-diagnostic abilities in the specific fields of this module, also through the use of the methodological tools of evidence-based medicine.

## SYLLABUS

Hrs	Frontal teaching
3	Splanchnocranium
2	Upper airways.
2	Oral cavity
2	Structural organization and organogenesis of the digestive tract.
3	Walls of the abdominal cavity.
3	Walls of the pelvic cavity and perineum.
3	Regionalization of the abdominal cavity and peritoneum.
5	Liver.
3	Stomach.
1	Spleen.
1	Duodenum.
1	Extrahepatic biliary system.
1	Pancreas.
3	Mesentery of the small intestine.
3	Large intestine.
1	Retroperitoneal space.
3	Kidneys.
2	Urinary tract.
1	Adrenal glands.
3	Male reproductive system.
4	Female reproductive system.

## MODULE MODULE I

*Prof. ROSARIO BARONE - Sede IPPOCRATE, - Sede IPPOCRATE*

### SUGGESTED BIBLIOGRAPHY

Anatomia del Gray – Le basi anatomiche della pratica clinica – Elsevier 2022; ISBN: 9788821454929  
 Anatomia Umana- basato sul Prometheus di M. Schünke, E. Schulte e U. Schumacher\_ EdiSES, 2021 ISBN: 978-8836230532  
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6	Lower limb.
3	Spine.
2	Neck.
2	Chest wall.
2	Mediastinum.
1	Pleural cavities.
1	Lower airways.
2	Lungs
1	Pericardium.
6	Heart.
2	Structure of blood vessels.
2	Arterial tree.
2	Venous tree.
1	Lymphopoietic system.
1	Thymus gland.
1	Lymph nodes.
1	Lymphatic vessels.

## MODULE MODULE II

*Prof.ssa ANTONELLA MARINO GAMMAZZA - Sede IPPOCRATE, - Sede IPPOCRATE*

### SUGGESTED BIBLIOGRAPHY

- 1) Anatomia del Gray-Le basi anatomiche della pratica clinica. Elsevier 2022 ISBN: 9788821454929;
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5	Liver
3	Stomach
1	Spleen
1	Duodenum
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1	Pancreas
3	Mesentery of the small intestine
3	Large intestine
1	Retroperitoneal space
3	Kidneys
2	Urinary tract
1	Adrenal glands
3	Male reproductive system
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## MODULE MODULE I

*Prof.ssa FRANCESCA RAPPA - Sede CHIRONE, - Sede CHIRONE*

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