# **COURSE DETAILS**

# "HUMAN ANATOMY II"

# SSD BIO/16

DEGREE PROGRAMME: MEDICINE AND SURGERY (P11)

ACADEMIC YEAR 2024-2025

## GENERAL INFORMATION-TEACHER REFERENCES

COORDINATOR: FRANCA DI MEGLIO

PHONE: 0817463409 EMAIL: franca.dimeglio@unina.it

| Faculty<br>member   | Position               | ScientificFields | Phone<br>081-746 | Reception<br>(day, time, building)     | E-mail                   |
|---------------------|------------------------|------------------|------------------|--|--------------------------|
| Franca Di<br>Meglio | Associate<br>Professor | Human<br>Anatomy | 3409             | Thu 13.30-14.30<br>(bldg 20, room 207) | franca.dimeglio@unina.it |

# GENERAL INFORMATION ABOUT THECOURSE

TEACHINGLANGUAGE: ENGLISH YEAR OF THE DEGREE PROGRAMME: II SEMESTER: I CFU: 8

#### **REQUIRED PRELIMINARY COURSES**

Molecular and Cell Biology, Human Anatomy I

#### PREREQUISITES

For the proper understanding of the topics discussed in Human Anatomy course, students should have acquired general knowledge on the cell and tissue structure, as well as cardiovascular and peripheral nervous systems.

#### **LEARNING GOALS**

The human anatomy course discusses the normal structure of the human body and provides the foundations of gross and microscopic anatomy required to pursue further medical education and clinical training. Human Anatomy II program comprises the study of the systemic gross and microscopic anatomy, vessels, nerves and functions of the organs of the respiratory, alimentary, urinary, genital systems, endocrine glands, central nervous system and sense organs, autonomic part of peripheral nervous system, and the integument.

#### **EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)**

Students will gain the ability toappreciate and describe the three-dimensional and multi-level complexity of human body, to describe the topography, vascularization, innervation, and structure of organs using the correct international anatomical terminology, to understand and appreciate the inextricable link between normal structure and function of human organs and systems.

#### Knowledge and understanding

The student will know the official anatomical terminology and normal human anatomy at the macroscopic and microscopic level and will understand the relationships between organs and between organ systems at different levels of organization.

#### Applying knowledge and understanding

The student will be able to examine and describe the structure of the human body using anatomical terminology, describe the relationships between organs by analyzing them from a topographic and functional point of view, indicate the surface projection of organs at the basis of the clinical examination, recognize and describe the organs by observing histological sections and correlate their structure with the functional specializations at the tissue and cell level.

### **COURSE CONTENT/SYLLABUS**

1. Respiratory system - nose, larynx, trachea, bronchi, lungs; thoracic cavity, pleura

2. Alimentary system - mouth, fauces, pharynx, esophagus, stomach, small and large intestine, liver, gallbladder, pancreas; abdominopelvic cavity, peritoneum

3. Urinary system - kidney, ureter, urinary bladder, urethra

4.Genital systems - female and male internal and external genitalia; perineum

5. Endocrine glands - pituitary gland (hypothalamic-pituitary axis), pineal body, thyroid, parathyroid, adrenal glands, pancreatic islets

6.Central nervous system - brain parts, spinal cord; ascending and descending tracts; brain stem, cranial nerves; cerebellum; forebrain; motor, sensory and limbic systems

7. Sense organs - eye and optic pathways; ear, vestibular and auditory systems

8. Autonomic nervous system - sympathetic and parasympathetic parts, peripheral autonomic plexuses and ganglia; central control of the autonomic nervous system

9. The integument - skin, skin appendages

| Week Day Prof. FormalLectures  |                      |  |  |
|--|----------------------|--|--|
|  |                      |  |  |
| Hour 1.00-3.30 p.m.  |                      |  |  |
| 1 <sup>st</sup> Mon, Oct 7 <sup>th</sup> Di Meglio Respiratory system (gross and microscopic anatomy)                    |                      |  |  |
| Oct 7 <sup>th</sup> -11 <sup>th</sup> , Thu, Oct 10 <sup>th</sup>  |                      |  |  |
| 2024 Fri, Oct 11 <sup>th</sup>   |                      |  |  |
| 2nd Mon, Oct 14 <sup>th</sup> Di Meglio Gastrointestinal system - ingestive portion (gros                                | and                  |  |  |
| Oct 14 <sup>th</sup> -18 <sup>th</sup> , Thu, Oct 17 <sup>th</sup> microscopic anatomy)                                  | microscopic anatomy) |  |  |
| 2024 Fri, Oct 18 <sup>th</sup>   |                      |  |  |
| 3 <sup>rd</sup> Mon, Oct 21 <sup>st</sup> Di Meglio Gastrointestinal system - digestive portion (gros                    | and                  |  |  |
| Oct 21 <sup>st</sup> -25 <sup>th</sup> , ThuOct 24 <sup>th</sup> microscopic anatomy)                                    |                      |  |  |
| 2024 Fri, Oct 25 <sup>th</sup>   |                      |  |  |
|  |                      |  |  |
| 4 <sup>th</sup> Mon, Oct 28 <sup>th</sup> Di Meglio Liver and pancreas (gross and microscopic anatomy)                   |                      |  |  |
| Oct28 <sup>th</sup> -31 <sup>st</sup> , Thu, Oct30 <sup>th</sup> Urinary system (gross and microscopic anatomy)          |                      |  |  |
| 2024 Fri, Oct31 <sup>st</sup>  |                      |  |  |
|  |                      |  |  |
| 5 <sup>th</sup> Mon, Nov 4 <sup>th</sup> Di Meglio Endocrine system (gross and microscopic anatomy)                      |                      |  |  |
| Nov 4 <sup>th</sup> -8 <sup>th</sup> , Thu Nov 7 <sup>th</sup>   |                      |  |  |
| 2024 Fri, Nov 8 <sup>th</sup>  |                      |  |  |
| 6 <sup>th</sup> Mon Nov 11 <sup>th</sup> Di Meglio Perineum  |                      |  |  |
| Nov 11 <sup>th</sup> -15 <sup>th</sup> . Thu, Nov 14 <sup>th</sup> Female reproductive system (gross and microscopic and | omv)                 |  |  |
| 2024 Fri. Nov 15 <sup>th</sup>   |                      |  |  |
| 7 <sup>th</sup> Mon. Nov 18 <sup>th</sup> Di Meglio Male reproductive system (gross and microscopic anato                | nv)                  |  |  |
| Nov 18 <sup>th</sup> - 22 <sup>th</sup> , Thu, Nov 19 <sup>th</sup> Skin and appendages                                  | .,                   |  |  |
| 2024 Fri, Nov 20 <sup>th</sup>   |                      |  |  |
|  |                      |  |  |
| 8" Mion, Nov 25" Di Meglio Central Nervous System  |                      |  |  |
| Nov25 <sup>sh</sup> -29 <sup>sh</sup> , Thu, Nov28 <sup>sh</sup>   |                      |  |  |
| 2024 Fri,Nov29 <sup>44</sup>   |                      |  |  |
| 9 <sup>th</sup> Mon Dec 2 <sup>nd</sup> Di Meglio Central Nervous System   |                      |  |  |
| Dec 2 <sup>th</sup> -6 <sup>th</sup> Thu Dec 5 <sup>th</sup>   |                      |  |  |
| 2024 Fri Dec 6 <sup>th</sup>   |                      |  |  |
|  |                      |  |  |
| 10 <sup>th</sup> Mon, Dec 9 <sup>th</sup> Di Meglio Central Nervous System.  |                      |  |  |
| Dec 9 <sup>th</sup> -13 <sup>th</sup> , Thu, Dec 12 <sup>th</sup> Sensory Organs (gross and microscopic anatomy)         |                      |  |  |
| 2024 Fri, Dec 13 <sup>th</sup>   |                      |  |  |

### **READINGS/BIBLIOGRAPHY**

Moore KL, Dalley AF, Agur AMR. Clinically oriented anatomy. LWW Drake R, Vogl AW, Mitchel AWM. Gray's anatomy for students. Elsevier Ross MH, Pawlina W. Histology - text and atlas. LWW Vanderah TW, Gould DJ. Nolte's The Human Brain. Elsevier

### **TEACHING METHODS**

For the teaching of Human Anatomy, the teacher will use a) frontal lectures for 80% of total hours andb) laboratories to further elaborate on applied knowledge for 20 % of total hours.

### **EXAMINATION/EVALUATION CRITERIA**

The final exam consists of a written test and an oral test. The written test will consist of 30 multiple choice questions. The students who pass the written test (minimum score of 18/30) can proceed to taking the oral test.

The oral component tests the mastery of the official anatomical terminology and the ability to use it correctly to describe the gross and microscopic anatomy of the organs of the digestive, respiratory, urinary, endocrine, genital and central nervous systems (with cranial nerves), also taking into consideration the structural and functional relationships between them.

#### a) Examtype:

| Examtype          |   |  |  |  |
|-------------------|---|--|--|--|
| writtenandoral    | X |  |  |  |
| onlywritten       |   |  |  |  |
| onlyoral          |   |  |  |  |
| projectdiscussion |   |  |  |  |
| other             |   |  |  |  |

| In case of a written exam, | Multiple choiceanswers | Х |
|----------------------------|------------------------|---|
| questions refer to: (*)    | Open answers           |   |
|                            | Numericalexercises     |   |

#### b) Evaluation pattern:

This field needs to be filled in only when there are different weights among written and oral exams, or among modules if this refers to an integrated course.