

Course Unit	Anatomohistophysiology II	Field of study	Health Sciences
Bachelor in	Physiotherapy	School	School of Health
Academic Year	2023/2024	Year of study	1
Type	Semestral	Semester	2
Level	1-1	ECTS credits	6.0
Code	9504-770-1202-00-23		
Workload (hours)	162	Contact hours	T 30 TP - PL 30 TC - S - E - OT 20 O -

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s)

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Acknowledges the endocrine system and knows the actions of its constituents in target tissues and organs in the human body.
2. Identifies the components of the blood and of the lymphatic system and describes their main functions
3. Recognises the components and functions of the immunity and urinary systems and understands their role in homeostasis.
4. Identifies the components of the digestive system, understands their roles, the major nutrients and metabolic processes for energy production and processes that regulate body temperature in human
5. Identifies the structures that comprise the human male and female reproductive systems, their physiology and knows the main stages of human development (from fertilization to postnatal period).
6. Know the anatomy and physiology of the urinary system.
7. Identifies the anatomy and physiology of the circulatory system and its regulation and maintenance.
8. Knows the anatomy and physiology of the respiratory system; regulation and maintenance.

### Prerequisites

Before the course unit the learner is expected to be able to:  
none

### Course contents

1. Know the endocrine system and the actions of its constituents in the organs.
2. Understands anatomy and physiology of the cardiovascular system.
3. Identifies the components of the blood and lymphatic system and their main functions.
4. Knows the constitution, functions of the respiratory and urinary systems and their role in homeostasis.
5. Identifies the structures of the digestive system and its functions.
6. Know the structures of the male and female reproductive systems and how they work.

### Course contents (extended version)

1. URINARY SYSTEM
  - Kidney, ureter, urinary bladder and urethra
  - Physiology of renal tissue
  - Regulation and maintenance of the urinary system, body fluids and acid-base balance.
2. REPRODUCTIVE SYSTEMS
  - Ovary, uterine tubes, uterus and vagina, female external genital structures
  - Sexual cycle
  - Testes, epididymi, ductus deferens, seminal vesicles, ejaculatory ducts, prostate, male genitalia
  - Reproduction and Development: notions of development
3. ENDOCRINOLOGY
  - Hypothalamus-hypophysis system.
  - Functional organization, glands and organs with secretion endocrine; major hormones, their effects
4. DIGESTIVE SYSTEM
  - Digestive system, metabolism and body temperature regulation
5. IMMUNE SYSTEM AND LYMPHATIC
  - Regulation and Maintenance of the Immune System (organization functional and anatomical)
  - Identifies the components of the blood and lymphatic system and knows their main functions.
6. Circulatory System - Cardiovascular
  - Anatomy and physiology of the cardiovascular system
  - Regulation and maintenance
7. RESPIRATORY SYSTEM
  - Anatomy and physiology of the respiratory system
  - Regulation and maintenance

### Recommended reading

1. -Drake RL, Vogl AW, & AWM, Mitchell (Eds. ). (2010). Gray's Anatomia para Estudantes (2ª ed. ): Rio de Janeiro: Editora Elsevier
2. -Netter FH (Ed. ). (1987). Anatomia y Fisiologia. Colección CIBA de Ilustraciones Médicas. : Barcelona: Salvat Editores.
3. -Junqueira, L. C. , & Carneiro, J. (Eds. ). (1999). Histologia Básica (9ª ed. ): Rio de Janeiro: Guanabara Koogan.
4. -Berne, R. M. , & Levy, M. N. (Eds. ). (2004). Fisiologia. (5ª ed. ): Rio de Janeiro: Mosby.
5. -Haines, D. E. (Ed. ). (2006). Neurociência Fundamental. (3ª ed. ): Rio de Janeiro: Churchill Livingstone Elsevier.

### Teaching and learning methods

Teaching methodology: Theoretical classes and practical laboratory classes (anatomy and physiology), that occur in specific rooms equipped with anatomic models and informatics media.

### Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
  - Intermediate Written Test - 40% (Academic period)
  - Intermediate Written Test - 40% (Academic period)
  - Practical Work - 20% (Academic period)
2. Alternative 3 - (Regular, Student Worker) (Supplementary)
  - Final Written Exam - 100% (For students who fail or want to improve. Includes all programmatic items of this note)
3. Alternative 4 - (Regular, Student Worker) (Special)

**Assessment methods**

- Final Written Exam - 100% (Special diet. Includes all programmatic items)

**Language of instruction**

Portuguese

**Electronic validation**

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20-05-2024	20-05-2024	21-05-2024	22-05-2024