

Course Unit	Clinical Pathology	Field of study	Health
Bachelor in	Dietetics and Nutrition	School	School of Health
Academic Year	2019/2020	Year of study	2
Type	Semestral	Semester	1
Level	1-2	ECTS credits	5.0
Code	8149-501-2105-00-19		
Workload (hours)	135	Contact hours	T - TP 60 PL - TC - S - E - OT 6 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:  
To describe pathologic events concerning the etiology, the prevalence, the pathogenesis, the symptoms and diagnostic procedures.

### Prerequisites

Before the course unit the learner is expected to be able to:  
The student must reveal solid knowledge of human anatomy and physiology

### Course contents

1. Clinical Pathology 2. disease patterns 3. basic pathological responses, laboratory clinical pathology, histopathology and biochemical 4. Adaptations cell disease: causes of pathological stimuli, cellular stress responses, adaptive responses in disease, damage and cell death 5. Aging and cancer 6. Responses to tissue damage 7. Genetic factors in disease 8. immunologic, infectious, environmental and nutritional factors 9. Pathology food causes: Infectious, deficiency and nutrition imbalance 10. Gastrointestinal Pathology

### Course contents (extended version)

- Clinical pathology
  - Pathology as a science, concepts, disciplines of clinical pathology
- Disease patterns
  - Natural history, etiology, pathogenesis, consequences.
  - Clinical history, physical examination, signs and symptoms
- Basic pathological responses, laboratory clinical pathology, histopathology and biochemical exams
- Cellular adaptations to disease
  - Causes of pathological stimuli, cellular stress responses
- Aging and cancer
- Tissue response to injury
  - acute and chronic inflammation
- Genetic factors in disease
- Immunologic, infectious, environmental and nutritional factors
- Foodborne illness
- Gastrointestinal pathology

### Recommended reading

- Kumar V. , Abbas AK, Aster JC. (2013). Robbins Patologia Básica. 9ª ed. Saunders Elsevier Science
- Rubin R, Strayer, D. (2005). Patologia: Bases Clinicopatológicas de Medicina. 4ª ed. Guanabara Brasil
- Sergio JS, Coutinho I, Marques S. (2002). Fundamentos de Patologia para Técnicos de Saúde. 2ª ed. Lusociência
- Damjanov I. (2000). Pathology for the health-related professions. 2nd ed, Saunders. Philadelphia

### Teaching and learning methods

Theoretical and Practical lessons with audiovisual support. Engagement in creative clinical cases in order to develop critical thinking and clinical reasoning.

### Assessment methods

- Alternative 1 - Continuous evaluation - (Regular, Student Worker) (Final)
  - Intermediate Written Test - 50% (During the semester)
  - Presentations - 50% (During the semester)
- Option - (Regular, Student Worker) (Supplementary)
  - Final Written Exam - 100% (For students not approved during the final season or wishing to improve their grades)
- Special Assessment Period - (Student Worker) (Special)
  - Final Written Exam - 100% (For special situations provided in Pedagogical regulation)

### Language of instruction

Portuguese

### Electronic validation

Iolanda Ligia Rodrigues Afonso	Ana Maria Geraledes Rodrigues Pereira	Teresa Isaltina Gomes Correia	Adília Maria Pires da Silva Fernandes
17-10-2019	19-11-2019	19-11-2019	19-11-2019