

**COURSE DATA****Data Subject**

Code	33962
Name	Pathophysiology
Cycle	Grade
ECTS Credits	4.5
Academic year	2019 - 2020

Study (s)

Degree	Center	Acad. year	Period
1205 - Degree in Human Nutrition and Dietetics	Faculty of Pharmacy and Food Sciences	3	First term

Subject-matter

Degree	Subject-matter	Character
1205 - Degree in Human Nutrition and Dietetics	21 - Molecular pathology and physiopathology	Obligatory

Coordination

Name	Department
CENTENO GUIL, JOSE M	190 - Physiology

SUMMARY

This subject consists of a basic part that addresses the general study of the pathophysiology of the organism. Later studying the pathophysiology of organs and systems giving special importance to those that relate or disorders that affect directly on metabolic and nutritional aspects

PREVIOUS KNOWLEDGE**Relationship to other subjects of the same degree**

There are no specified enrollment restrictions with other subjects of the curriculum.



Other requirements

It is recommended to have completed General Physiology and Physiology of Apparatus and Systems

OUTCOMES

1205 - Degree in Human Nutrition and Dietetics

- Apply scientific knowledge of physiology, physiopathology, nutrition and food to offer dietary planning and advice to both healthy and sick individuals and communities throughout their life cycle.
- Skills in analysis and synthesis.
- Saber cómo plantearse problemas y utilizar los métodos adecuados para su resolución, siendo capaz de llevar a cabo un razonamiento crítico.
- Ser capaz de trabajar en equipo y de organizar y planificar actividades.
- Ser capaz de llevar a cabo una comunicación oral o escrita.
- Know the basic pathophysiology of the human body at the various stages of life.
- Know the influence of nutrition on pathological states and vice versa.
- Understand and interpret how an organ or systemic failure affects the lack of constancy of the internal environment.
- Assess and calculate nutritional requirements in situations of health and illness at any stage of the life cycle.
- Conocer los aspectos fisiopatológicos de las enfermedades relacionadas con la nutrición.
- Identificar los problemas dietético-nutricionales del paciente, así como los factores de riesgo y las prácticas inadecuadas.
- Understand and use clinical and biochemical data in the nutritional assessment of patients and in their dietary-nutritional treatment.
- Manejar las herramientas básicas en TIC utilizadas en el campo de la Alimentación, Nutrición y la Dietética.

LEARNING OUTCOMES

Understand the basic pathophysiology of the organism.

Understand how nutrition influences the pathological states.

Understand the importance of each organ and the influence of organ failure on the entire system.

Knowing how to approach problems and use appropriate methods for their resolution



DESCRIPTION OF CONTENTS

1. Introduction to Physiopathology

Introduction to Pathophysiology. Cellular pathology. Pathology of homeostatic balance (pH, electrolyte balance, etc ...)

2. Gastrointestinal pathophysiology

General study of the digestive pathology. General expression of the pathology of the digestive tract. Pathology of the exocrine pancreas. Liver pathology. Pathology of carbohydrates, lipids, proteins and trace elements

3. Pathophysiology of the endocrine system.

Endocrine pathophysiology. Pathology of the hypothalamus, pituitary and accessory glands. Pathophysiology of the thyroid, adrenal gland, parathyroid

4. Pathophysiology of organs and systems

Study of the Pathophysiology of other organs and systems of the human body. Respiratory, cardiocirculatory and renal pathophysiology, etc ...

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	38,00	100
Tutorials	2,00	100
Seminars	2,00	100
Development of group work	3,00	0
Development of individual work	3,00	0
Study and independent work	61,50	0
TOTAL	109,50	

TEACHING METHODOLOGY

This subject is addressed through lectures.

In addition, establish a series of tutorials for students to solve the doubts that may arise in each of the thematic units.



In addition, students must carry out and present a theoretical work.

EVALUATION

Teamwork (coordinated seminar: 10% of the final grade). The participation of each student and the quality of the work submitted will be assessed according to the rules of coordinated seminar that appears on the website of the Faculty of pharmacy. The coordinated seminar work is mandatory. The evaluation of the assimilated knowledge, will take place from a written test that corresponds to 90% of the final grade, and which will include The theoretical contents of the course, which will be held according to the official calendar of the Centre. In this exercise a minimum of 40% of the maximum score must be reached to overcome the subject.

Students who do not reach this grade will have to submit to an examination of all the theoretical matter of the course in a second call. In this second evaluation, the teamwork (10% of the final grade) will be taken in account too.

REFERENCES

Basic

- Laso FJ. Patología General. Introducción a la Medicina Clínica. Masson. 2004
- Sisinio de Castro. Manual de Patología General. Elsevier Masson. 2006

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available