

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

Code	33962
Name	Pathophysiology
Cycle	Grade
ECTS Credits	4.5
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. Period	year
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

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

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 (RD 1393/2007) // NO CONTENT (RD 822/2021)

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.

During the activities, both theoretical and practical, examples of how the subject should be applied in relation to the Sustainable Development Goals (SDGs) will be given. The SDGs will also be taken into account in the proposals of topics for the coordinated seminars. This will provide students with knowledge, skills and motivation to understand and manage these SDGs, while promoting reflection and criticism.

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 assessment of the assimilated knowledge will be made from a written test that will correspond to 90% of the final grade, and that will include the theoretical contents of the entire subject, which will be done according to the official calendar of the center.

In this exercise a minimum of 40% of the maximum score of the test must be achieved. In the event that the exam has two parts, each of them must be passed with a score of 20% of the maximum mark for that part, and the final mark must, therefore, reach 40% of the total mark. .

To pass the subject, the exam grade added to that of the coordinated seminar must be at least 5 points.

Students who do not achieve the passing grade in the first call must take an examination of all the theoretical material of the course in the second call. In the evaluation of this second call, the teamwork presented will be taken into account.

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



1. Contents

The contents initially collected in the teaching guide are maintained.

2. Volume of work and temporary planning of teaching.

The same teaching planning is maintained. Schedules of theoretical classes, practices, tutorials and seminars are respected.

3. Teaching methodology

The planning of the theoretical classes is maintained, which will be taught by videoconference or in person depending on the health situation. In any case, the programming of the subject will be maintained and the full agenda will be taught.

Each week additional documents, images or videos may be made available to students to facilitate study. Coordinated tutorials and seminars will be carried out in person or by videoconference, depending on the needs, maintaining the established schedules.

4. Evaluation

- Individual exercises proposed online or in the classroom: 20% of the total grade for the course.
- Coordinated Seminar Work: 10% of the total grade for the course. Coordinated seminars may be carried out by videoconference.
- Final exam: 70% of the total grade for the course. There will be an examination of all the material in person. The exam may present test or true / false questions, as well as short reasoning questions. To pass the course it will be necessary to obtain at least 4.5 points in the exam grade and that when adding the notes of the individual exercises and the Coordinated Seminar the score is at least 5 points. This examination may also be carried out electronically if necessary.

Students who do not achieve the pass grade in the first call must sit an exam of the entire course subject in the second call, whose exam will have the same characteristics as the first call, and will also consider the Coordinated Seminar and individual exercises.

5. Bibliography

The recommended bibliography is kept as it is accessible. The teacher will also provide information through the Virtual Classroom.
