COURSE DATA

DATA SUBJECT

Code: 33962
Name: Pathophysiology
Cycle: Undergraduate Studies
ECTS Credits: 4.5
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1205 - Degree in Human Nutrition and Dietetics	Facultat de Farmácia i Ciències de L'alimentació	3	First quarter

SUBJECT-MATTER

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

COORDINATION

CENTENO GUIL JOSE M

GONZALEZ CABO MARIA PILAR

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 / LEARNING 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.

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.

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.

Manejar las herramientas básicas en TIC utilizadas en el campo de la Alimentación, Nutrición y la Dietética.

Saber cómo plantearse problemas y utilizar los métodos adecuados para su resolución, siendo capaz de llevar a cabo un razonamiento crítico.

Ser capaz de llevar a cabo una comunicación oral o escrita.

Ser capaz de trabajar en equipo y de organizar y planificar actividades.

Skills in analysis and synthesis.

Understand and interpret how an organ or systemic failure affects the lack of constancy of the internal environment.

Understand and use clinical and biochemical data in the nutritional assessment of patients and in their dietary-nutritional treatment.

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

PRESENCIAL ACTIVITIES

Activity	Hours
Tutorials	2,00
Theory	38,00
Seminar	2,00
Total hours	**42,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	6,00
Independent study and work	61,50
Preparation of lessons	0,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	**67,50**

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 personal participation of each student and the quality of the work presented will be evaluated according to the regulations for coordinated seminar work that appear on the website of the Faculty of Pharmacy. Written work, presentation, defense, and proposed activities will be taken into account for their assessment according to the guidelines on coordinated seminars available at the web page of the Degree. The level of understanding of the contents as well as the skills for its presentation and discussion will be assessed.

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 score of the complete exam, 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.

Evidence of copying or plagiarism in any of the assessable tasks will result in failure to pass the subject and in appropriate disciplinary action being taken. Please note that, in accordance with article 13. d) of the Statute of the University Student (RD 1791/2010, of 30 December), it is the duty of students to refrain from using or participating in dishonest means in assessment tests, assignments or university official

documents.

In the event of fraudulent practices, the "**Action Protocol for fraudulent practices at the University of Valencia**" will be applied (ACGUV 123/2020):

https://www.uv.es/sgeneral/Protocols/C83sp.pdf

The activities of continuous assessment, which in this subject are practices, tutorials and seminars, are of MANDATORY ATTENDANCE and, therefore, NOT RECOVERABLE, in accordance with the provisions of Article 6.5 of the Regulation of Evaluation and Qualification of the UV for Bachelor and Master degrees. If it is not possible to attend any of these activities for justified reasons, it must be communicated in advance. In this way, the person in charge of the subject may assign the student a session in another group.

REFERENCES

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