

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

Code	33932
Name	General Physiology
Cycle	Grade
ECTS Credits	6.0
Academic year	2023 - 2024

Study (s)

Degree	Center	Acad. year	Period
1205 - Degree in Human Nutrition and Dietetics	Faculty of Pharmacy and Food Sciences	1	First term

Subject-matter

Degree	Subject-matter	Character
1205 - Degree in Human Nutrition and Dietetics	3 - Physiology	Basic Training

Coordination

Name	Department
BURGUETE LOPEZ, MARIA CONSUELO	190 - Physiology
CENTENO GUIL, JOSE M	190 - Physiology
JOVER MENGUAL, TERESA	190 - Physiology

SUMMARY

Theoretical and practical basic knowledge of the function of the human body, enabling it to understand the development and overall functioning of the tissues and organs that compose it, giving special attention to the complexity of the interaction of all corporal systems.

PREVIOUS KNOWLEDGE



Relationship to other subjects of the same degree

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

Other requirements

OUTCOMES

1205 - Degree in Human Nutrition and Dietetics

- Know, judge and know how to use and apply the sources of information related to nutrition, food, lifestyles and health.
- Develop the capacity to gather and convey information in English at a level equivalent to the B1 level in the Common European Framework of Reference for Languages.
- Adquirir la formación básica para la actividad investigadora, siendo capaces de formular hipótesis, recoger e interpretar la información para la resolución de problemas siguiendo el método científico, y comprendiendo la importancia y las limitaciones del pensamiento científico en materia sanitaria y nutricional.
- Know the basic physiology of the human body from the molecular level to the full body, at the various stages of life.
- Learn to understand the body as a whole.
- Understand and interpret how each organ is involved in the maintenance of the constancy of the internal environment.
- Know how to set out problems and use the appropriate methods for their resolution, being able to apply critical reasoning.
- Learn the fundamentals for using the scientific equipment directly related to their professional activity.
- Skills in analysis and synthesis.
- Ser capaz de trabajar en equipo y de organizar y planificar actividades.
- Know the structure and function of the human body at the various stages of life, from the molecular level to the full body.

LEARNING OUTCOMES

- To understand that the different organs and systems are functioning all together as a biological complete organism.
- To know how participates every organ in the maintenance of the constancy of the "internal environment".
- To know how every living element of the organism participates in the organic function.
- To know how problems arise and use the appropriate methods for its resolution.
- To learn the minimal managing of scientist material directly related to his professional task.



DESCRIPTION OF CONTENTS

1. Introduction to Physiology

Introduction to the Physiology. Evolution. Cell membrane and transport mechanisms. Homeostasia and regulatory systems. Liquid body compartments. Excitability and conduction of impulses.

2. Tissues

Study of the role of the main body tissues: muscle, epithelial, nervous and connective (and its amendments).

3. Blood

Study of the blood and of his importance in the maintenance of the corporal homeostasia, as well as other functions: transport of nutrients and gases, temperature, immunity, etc.

4. Introduction to Physiology of Apparatus and Systems

A general introduction to the Physiology of the different apparatus and systems of the human body (digestive, circulatory, nervous, excretory, endocrine, respiratory). This part is an introduction to the following subject.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	38,00	100
Laboratory practices	14,00	100
Seminars	2,00	100
Tutorials	2,00	100
Development of group work	25,00	0
Study and independent work	65,00	0
TOTAL	146,00	

TEACHING METHODOLOGY

- This subject is approached by means of lectures and laboratory practice.
- In addition, establishes a number of hours of tutoring so that students can resolve the doubts that may arise in each of the thematic units.
- On the other hand, students must perform and exhibit 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 working rules of Coordinated Seminar that appears on the website of the Facultat de Farmàcia.

The assessment of the knowledge of the program contents imparted during the course, will be based on a written test that will correspond to 90% of the final grade, which will include theoretical and practical contents of the entire subject. This test will be done on the date indicated in the official calendar of the school. This exercise may include test questions, short questions, and development questions. It will be necessary to obtain at least 4.5 points in the written test and after adding the score of the Coordinated Seminar the final score needs to be at least 5 points to pass the subject.

In addition, if the examination consists of several parts (test, short questions, development questions ...), it will be necessary to obtain a minimum score in all parts. In this case, the complete qualification needs to be at least 4.5 points.

Students who do not pass the subject on the first call, will need to attend a second written test which include theoretical and practical contents of the entire program of the subject in the second call. In the evaluation of this second call, the teamwork presented score (10% of the final grade) will be taken into account.

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.

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>



REFERENCES

Basic

- Thibodeau, G. A. y Patton, K.T. Anatomía y Fisiología. Ed. Harcourt. 8 Ed.
- Tortora- Derrickson. Principios de Anatomía y Fisiología. Ed. Panamericana. 15 Ed. 2018

Additional

- Fox, S.I.: Fisiología Humana. Ed. McGraw-Hill Interamericana. 2003
- Guyton A.C. and Hall J., S.I.: Fisiología Humana. Ed. McGraw-Hill Interamericana. 14 Ed.
- M. González-Gross. Nutrición Deportiva. Desde la Fisiología a la práctica. Editorial Médica Panamericana.