



## COURSE DATA

### Data Subject

<b>Code</b>	33968
<b>Name</b>	Public Health
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	9.0
<b>Academic year</b>	2021 - 2022

### Study (s)

<b>Degree</b>	<b>Center</b>	<b>Acad. Period year</b>
1205 - Degree in Human Nutrition and Dietetics	Faculty of Pharmacy and Food Sciences	3 Annual

### Subject-matter

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1205 - Degree in Human Nutrition and Dietetics	27 - Public health	Obligatory

### Coordination

<b>Name</b>	<b>Department</b>
ORTEGA AZORIN, CAROLINA	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.
PORTOLES REPARAZ, OLGA CARMEN	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.

## SUMMARY

To acquire the basic concepts on the health and determinants of the health, levels of prevention and actions of protection and promotion of the health its link to the Sustainable Development Goals (SDGs). To know the epidemiology and its application in them nutritional studies. To understand the influence of the supply and nutrition on the health. To identify the key aspects of the promotion of the health and of the education for the health, fundamentally related to the field of the feeding and nutrition, as well as to know the principal programs of health in the different stages of the life. To know the epidemiology of the principal contagious and non transmissible diseases, its prevention and control, principally, in relation to the food. To know the relation between the environment and the health. To know the sanitary system, planification and magement.



## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

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

### Other requirements

Knowledge of the subjects given during the first two years of degree, fundamentally Statistics, Microbiology and Nutrition, Chemical Analysis, Parasitology, as well as the basic matters of Physics, Chemistry and, Biochemistry

## OUTCOMES

### 1205 - Degree in Human Nutrition and Dietetics

- Recognise the essential elements of the profession of the dietitian-nutritionist including ethical principles, legal responsibilities and the practice of the profession, apply the principle of social justice to professional practice, and work with respect to people, their habits, beliefs and cultures, from a gender perspective.
- Practise the profession with respect for other health professionals and acquire skills to work in teams.
- Communicate effectively, both orally and in writing, with people, with health or industry professionals and with the media, knowing how to use information and communication technologies, especially those related to nutrition and lifestyles.
- Recognise the need to maintain and update professional competence, with particular emphasis on independent and lifelong learning of new facts, products and techniques in the field of nutrition and food, and on motivation for quality.
- Know, judge and know how to use and apply the sources of information related to nutrition, food, lifestyles and health.
- Know about national and international health organisations and the different healthcare systems and identify the role of the dietitian-nutritionist.
- Know and intervene in the design, implementation and validation of nutritional epidemiological studies, and participate in the planning, analysis and evaluation of food and nutrition intervention programmes in different areas.
- Participate in activities for the promotion of health and the prevention of disorders and diseases related to nutrition and lifestyles, and provide food and nutrition education to the population.
- Collaborate in the planning and development of policies on food, nutrition and food safety based on the needs of the population and health protection.
- Participate in the management, organisation and provision of food services.



- Acquire basic training for the research activity, be able to formulate hypotheses, collect and interpret information for problem solving using the scientific method, and understand the importance and the limitations of scientific thought in the field of health and nutrition.
- Know the basic concepts of health and public health.
- Know the methods and means of health education.
- Know the relationship between environment and health.
- Acquire knowledge on epidemiology and prevention of communicable and non-communicable diseases.
- Know and assess the determinants of health.
- Adquirir los conocimientos sobre el método epidemiológico y su aplicación al campo de la nutrición.
- Be familiar with strategies for promoting health and preventing disease, primarily in the field of nutrition.
- Conocimientos sobre planificación y programación sanitaria.
- Know the organisation of healthcare: health systems and international public health.

## LEARNING OUTCOMES

At the end of the course the pupil must be capable of:

- To apply the concepts of the Public Health in general and in related disciplines, especially, in the area of the degree of Human Nutrition
- To know the organizational and normative environment of the Public Health in Spain comparing the characteristics with other sanitary systems.
- To analyze critically the information in the epidemiological nutritional studies
- To realize calculations to obtain measures of frequency of disease - health, measure of association and of impact. To be able to interpret the obtained results.
- To detect and to correct the principal random and systematic errors in the epidemiological nutritional studies, as well as to value its influence for the results and its practical application.
- To interpret the results of metanalysis and of the different measures which are in use in the evaluation of diagnostic tests.
- To distinguish the different pollutants of the environment and to interpret the measurements realized by the different equipments to take decisions brings over of the convenience of preventive measures or of control. Evaluation of the impact of the pollutants in the health.
- To collaborate in the prevention and control of contagious diseases across the knowledge of his mechanism of transmission and strategies of prevention and control for general and particular level for those more relevant diseases.
- To collaborate in the prevention and control of the chronic diseases and accidents acting as sanitary educator on the ways of life and the environmental factors, as well as of sanitary assistance.
- To analyze opportunities and challenges raised by new or changeable situations in relation to the Public Health
- In general, one tries to promote the capacity of analysis and synthesis in the resolution of problems and capture of decisions in the field of Human Nutrition



## DESCRIPTION OF CONTENTS

### 1. General Concepts in Public Health

Concept of Health, Public Health, Determinants of the Health, Principal determinants of the way of life and of the physical and social environment. Food and Health. Mediterranean diet Sanitary Demography, Information systems, Epidemiological Vigilance. The World Health Organization. Levels of Prevention. Education for the health. Qualitative technologies. Prevention and Promotion of the Health, and the relationship with the Sustainable Development Goals of the 2030 Agenda.

### 2. General Concepts in Public Health

Concepts and uses of the Epidemiology. Applications to the Human Nutrition. Causality. Measures of frequency. Types of epidemiological studies, measures of association and impact, biases, metanálisis. Nutritional epidemiology. Valuation of diagnostic tests. Poblacional screening tests. Examples of the principal studies published in Human and Dietetic Nutrition.

### 3. Environment and health

Environment and health and aspects related to the Sustainable Development Goals. Environmental epidemiology. Effects on the health. Environmental health and food. Climatology and health. Climate change and repercussions on the environment and health. Pollution of soils. Waste management.

### 4. Infectious diseases

Epidemiology, prevention and control. Immunization and vaccines. Sterilization, disinfection and pesticides. Classification of infectious diseases. The most relevant contagious diseases

### 5. Chronic Diseases

General epidemiology of the chronic diseases and strategies of prevention and control related to the food. Nutrition and cardiovascular disease. Nutrition and cancer. Nutrition and diabetes, obesity and metabolic syndrome. Genomic epidemiology studies in chronic diseases

### 6. Sanitary System and Services of Health

Sanitary Spanish system. Other sanitary systems. Primary care and Specialized Attention. Services of Health. Paper of the Graduate in Human and Dietetic Nutrition in the Sanitary system. Health economics. Management and Sanitary Planning. Community nutrition.



## WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	75,00	100
Seminars	10,00	100
Tutorials	2,00	100
Development of group work	20,00	0
Development of individual work	20,00	0
Study and independent work	80,00	0
Readings supplementary material	10,00	0
Preparation of practical classes and problem	5,00	0
<b>TOTAL</b>	<b>222,00</b>	

## TEACHING METHODOLOGY

The theoretical contents will be given across lessons composed in a dialogue with the students promoting the participation of the student across questions.

These theoretical meetings will have the complement of the tutorships (4 hours), virtual tutorships and seminars (6 hores).

During the development of the classes, the contents of the subject will be linked with the Sustainable Development Goals of the 2030 Agenda, with its presentation, as well as with examples of its applications. With all this, its importance will be addressed, at the same time that students acquire knowledge and skills to understand the relevance of these SDGs and their relationship with the subject taught.

Throughout the coordinated seminars on this subject, the relationship between the subject matter of the work developed with the Agenda of the Sustainable Development Goals will be motivated, valuing the consideration of the inclusion of the approach of the gender and social perspective, as well as inequalities and other approaches considered in said agenda.

In the seminar lessons, methodology based on learning by resolution of problems will be used. The work will be promoted in group that will allow the development of capacities of communication and oral coherent and logical expression.

## EVALUATION

**1. Exam:** Written test to asses knowledge and understanding of the theoretical minimum content established for the subject. This test will be the 75% of the final qualification of the subject.



**2. Partial exam:** During the course a partial exam will be taken at the end of the first semester. In the case of having passed with a 5/10, the subject of the partial will be eliminated and this mark will be saved during the first and second calls.

**3. Both marks for the first partial and for the final exam (second partial)** must be passed (5/10) in order to calculate an average. The final qualification of the students that are examined of all the contents, will be the achieved in the final exam.

**4. Seminars:** The work carried out in the seminar sessions, which includes the ability to resolve problems as well as the ability to make detailed and organized reports, will be up to 20% in the final qualification. These seminars will be coordinated with other subjects and also specific to the subject. Students are reminded of the obligation to attend coordinated seminars.

**5. The qualifications of both seminars and tutorials** will be added when the complete subject has been passed

**6. Tutorials:** Evaluation of the work done during tutorials and other teaching activities of the course. Taking into account the attitude of the student and the answer to the questions presented, the contribution of this activity will count up to 5% of the final evaluation of the subject.

The student enrol in the subject must attend the tutorials and seminars to pass the course, although in the case of repeat students, they will keep the marks of tutorials and seminars that they had obtained in the previous course.

## REFERENCES

### Basic

- Serra-Majem L, Aranceta J. Nutrición y Salud Pública. Métodos, bases científicas y aplicaciones. 2ª ed. Barcelona: Elsevier-Masson, 2006.
- Hernández-Aguado I, Gil de Miguel A, Delgado-Rodríguez M, Bolumar-Montrull F. Manual de epidemiología y salud pública para licenciaturas y diplomaturas en ciencias de la salud. Madrid: Medica Panamericana, 2005.
- Piédrola Gil y cols. Medicina Preventiva y Salud Pública. 12ª Edición. Madrid: Elsevier Masson. 2016

### Additional

- Martínez-González MA, Sánchez-Villegas A, Faulín Fajardo J. Bioestadística amigable. Díaz de Santos: Madrid, 2006
- Fletcher RH, Fletcher SW, Wagner EH. Epidemiología Clínica. 2ª ed. Elsevier Masson:Madrid:2007



## 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. General concepts

All the contents initially programmed in the teaching guide are maintained.

### 2. Volume of work and temporary planning of teaching

The weight of the activities that add the hours of dedication in ECTS credits marked in the original teaching guide is maintained.

Theoretical classes and seminars that, depending on the epidemiological situation by COVID-19, cannot be taught in person, will be carried out following the instructions indicated by the University of Valencia, maintaining the schedules and duration established in the CAT. At the case that the tutorialships must be carried out via online, will realise a review of the temary, as well as the resolution of the doubts posed by the own pupils. Maintains the initial temporal planning, letting margin for the delivery of the activities posed.

### 3. Teaching methodology

The theoretical classes coordinated and uncoordinated seminars, which must be taught virtually (online), will be held synchronously through the computer platform determined by the University of Valencia, or through recorded lesson.

The material available in the virtual classroom will be used for this: presentations of each topic, documents with activities that will be submitted through the virtual classroom or will be solved through the forum of the same virtual classroom.

### 4. Evaluation

The exams, partial and final, will be in person or online, depending on the epidemiological situation and according to the instructions proposed by the University of Valencia. It will be done through an objective test type with multiple choice questions. In this activity, a minimum grade of 5/10 must be obtained for passing the course. The weight of the activities that add the hours of dedication in ECTS credits indicated in the teaching guide is maintained.

Students are reminded of the compulsory participation in tutorials and seminars through the Virtual Classroom. Failure to participate without just cause will imply a zero in the corresponding evaluation section.

### 5. Bibliography

When access to the library is not possible, students will be provided with the necessary bibliography through the virtual classroom.