

## 26020 - Public health

### Syllabus Information

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**Academic Year:** 2020/21

**Subject:** 26020 - Public health

**Faculty / School:** 127 - Facultad de Ciencias de la Salud

**Degree:** 276 - Degree in Occupational Therapy

**ECTS:** 6.0

**Year:** 3

**Semester:** Annual

**Subject Type:** Compulsory

**Module:** ---

## 1.General information

### 1.1.Aims of the course

### 1.2.Context and importance of this course in the degree

In this course, the students will learn the basic concepts in Public Health (PH). PH is concerned with threats to the population's health. Important subfields of public health include epidemiology, biostatistics, and health services. Epidemiology is commonly referred to as the foundation of public health because it is a study that aids our understanding of the nature, extent, and cause of public health problems and provides important information for improving the health and social conditions of people.

### 1.3.Recommendations to take this course

## 2.Learning goals

### 2.1.Competences

### 2.2.Learning goals

### 2.3.Importance of learning goals

## 3.Assessment (1st and 2nd call)

### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

## 4.Methodology, learning tasks, syllabus and resources

### 4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions, assignments, autonomous work.

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### 4.2.Learning tasks

This 6 ECTS course is organized as follows:

- **Lectures** (1.5 ECTS). Theory contents are exposed by the teacher. The sessions will use material which will be available in Moodle in order to study topics before each session.

- **Practice sessions** (0.5 ECTS). Perform exercises that make up the training activity program, in the classroom and under the supervision of the teacher. These exercises are set out in the practices notebook, available on the network teaching.
- **Assignments** (0.5 ECTS)
- **Autonomous work and study** (3.5 ECTS).

### 4.3.Syllabus

This course will address the following topics:

#### **Section 1: Expanding the Concept of Public Health**

- Topic 1. Health and Disease. Social Determinants of Health
- Topic 2. Demographic and Epidemiological Transition. Concepts and functions of Public Health
- Topic 3. Measuring, Monitoring, and Evaluating the Health of a Population

#### **Section 2: Epidemiology and Research Methodology in Occupational Therapy**

- Topic 4. History and Scope of Epidemiology
- Topic 5. Measures of Morbidity and Mortality used in Epidemiology
- Topic 6. Descriptive Epidemiology: Person, place and time.
- Topic 7. Study Designs: Ecologic, Cross-Sectional, Case-Control
- Topic 8. Cohort Studies
- Topic 9. Experimental Study Designs. Intervention studies, clinical trials, and community trials
- Topic 10. Establishing Causal Relationships
- Topic 11. Hierarchy of Study Designs
- Topic 12. Literature search and review of the scientific literature.

#### **Section 3: Services and Health Management. Health Programs**

- Topic 13. Health Care Financing and Organization
- Topic 14. Spanish Health System. Features and organization
- Topic 15. Information systems in health management

#### **Section 4: Prevention of Health Problems interest in Physiotherapy**

- Topic 16. Communicable Diseases (1): The nature of Communicable Disease. Modes of Transmission of Disease. Immunity. Surveillance. Endemic and Epidemic Disease.
- Topic 17. Communicable Diseases (2): Control of Communicable Diseases. Methods of Prevention
- Topic 18. Connections between Infectious and Chronic Diseases. Control and Eradication of Infectious Diseases
- Topic 19. Non-Communicable Diseases and Conditions (1): The Rise and Spread of Chronic Disease. Global Burden of non-communicable diseases. Risk Factors and Prevention of Non-Communicable Diseases.
- Topic 20. Non-Communicable Diseases and Conditions (2): Risk Factors and Prevention of Non-Communicable Diseases.

### 4.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Faculty of Health and Sport Sciences website (<https://mmpysp.unizar.es/>) and Moodle.

### 4.5.Bibliography and recommended resources

#### **Books:**

- Basic Epidemiology / Ruth Bonita. 2th edition. Washington, DC, Pan American Health Organization, 2008
- Manual of epidemiology and public health degrees in health sciences / Ildefonso Hernández-Aguado [et al.] 2th ed. Madrid, Editorial Medica Panamericana, 2011
- Concepts of public health and preventive strategies: A Handbook for health sciences /Miguel Ángel Martínez-González [et al.]). Barcelona, Elsevier, 2013

#### **Websites:**

Throughout the course and each topic will be indicated recommended websites

**Twitter:** @FCSSaludpublica