

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

<b>Code</b>	42689
<b>Name</b>	Environment and health
<b>Cycle</b>	Master's degree
<b>ECTS Credits</b>	3.0
<b>Academic year</b>	2021 - 2022

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period</b>	<b>year</b>
2124 - Master's Degree in Public Health and Healthcare Management	Faculty of Pharmacy and Food Sciences	1	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
2124 - Master's Degree in Public Health and Healthcare Management	3 - Health protection	Obligatory

**Coordination**

<b>Name</b>	<b>Department</b>
BALLESTER DIEZ, FERRAN	125 - Nursing

**SUMMARY**

In this introductory course to Public Health is intended that students learn aspects of air pollution and its impact on the health of populations. Other important factors will study the control of wastes and their disposal, reviewing the risks they carry. Besides exposure to toxic substances and their health effects are taken into account and ultimately environmental monitoring networks in the Valencian Community, as well as the characteristics of research in environmental health study.

**PREVIOUS KNOWLEDGE**



### Relationship to other subjects of the same degree

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

### Other requirements

The recommended profile is the person in possession of an official Spanish university degree or a certificate issued by an institution of higher education in the European Higher Education Area that entitle the issuing country for access to Master's teachings. Also, can also access the graduates from educational systems outside the European Higher Education Area without the approval of their qualifications, upon verification by the University that those certify a level of education equivalent to the corresp

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

### LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

The teaching-learning process in this matter will help the student to acquire the basic, general and transferable skills outlined in the general content of the Master, and in particular the development of specific skills more directly related to the following contents:

Understanding the basics of air pollution and its impact on health, make control systems and waste disposal, as well as being aware of the risks involved. Knowing how to act against exposure to certain toxic substances, especially carcinogens and its evaluation by means of environmental monitoring networks such as the network of the Valencian Community.

## DESCRIPTION OF CONTENTS

### 1. Effects of air pollution on health.

1. Environment and health. Major environmental health risks.
2. Climate change and health.
3. Effects of air pollution in the short term and long term.
4. Environmental monitoring networks in the Valencian Community.
5. Environmental health research. Elements for design of a study on risks of environmental origin.

### 2. Organization of environmental health and toxic compounds

- 1.-Organization of environmental health in Valencia
- 2.-Risks from waste disposal. Program control of legionellosis.
- 3.-toxic persistent and non-persistent compounds
- 4.-Use of biomarkers for exposure to toxic compounds.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	24,00	100
Development of group work	10,00	0
Development of individual work	10,00	0
Study and independent work	15,00	0
Preparation of evaluation activities	6,00	0
Resolution of case studies	10,00	0
<b>TOTAL</b>	<b>75,00</b>	

**TEACHING METHODOLOGY**

Theoretical lessons

Resolution of practical cases

Resolution of problems

Work aided in computer classroom

Work in groups tutorized

Projects development

**EVALUATION**

Delivery and evaluation of practical exercises: 60 %

Theoretical and practical exam. Weight: 40 %

Attendance and participation in classes will be considered with a valuation of up to half of the exam evaluation.

**REFERENCES****Basic**

- Chen CJ. Environmental health issues in public health. En: Detels R, Beaglehole R, Lansang MA, Gulliford M (eds). Oxford textbook on Public Health. Oxford University Press Inc, 2009; pp: 825-840.
- Dean Baker and Mark J Nieuwenhuijsen (Eds) Environmental Epidemiology. Study methods and application. Oxford University Press: London, 2008



- Quaderns de la Bona Praxi. El medi ambient i la salut. Col.legi de Metges de Barcelona. 2012. Accesible en: <http://www.comb.cat/cat/actualitat/publicacions/bonapraxi/praxi30.pdf>
- Segundo informe del Observatorio DKV Salud y Medio Ambiente: Contaminación Atmosférica y Salud. Accesible en: [http://ecodes.org/component/option,com\\_phocadownload/Itemid,446/id,22/view/category/](http://ecodes.org/component/option,com_phocadownload/Itemid,446/id,22/view/category/)
- Guía de actuación para estudios de riesgos y daños para la salud. Dirección General de Salud Pública, 2007. Accesible en: [http://www.sp.san.gva.es/biblioteca/publicacion\\_dgsp.jsp?cod\\_pub\\_ran=72190](http://www.sp.san.gva.es/biblioteca/publicacion_dgsp.jsp?cod_pub_ran=72190)
- David Briggs, Michael Joffe, Paul Elliott. Impact of Environmental Pollution on Health: Balancing Risk. British Medical Bulletin 2003; 68
- Estrategia europea de medio ambiente y salud, Bruselas, 11.6.2003 COM (2003) 338 final. Iniciativa SCALE. [http://europa.eu/legislation\\_summaries/public\\_health/health\\_determinants\\_environment/l28133\\_es.htm](http://europa.eu/legislation_summaries/public_health/health_determinants_environment/l28133_es.htm)
- Normativa reguladora Comunitat Valenciana <http://sanidadambiental.com/2009/07/20/decreto-952009-de-10-de-julio-del-consell-por-el-que-se-crea-el-sistema-de-vigilancia-sanitaria-de-riesgos-ambientales/>

#### **Additional**

- Plan de acción europeo de medio ambiente y salud (2004-2010), 9.6.2004. COM (2004) 416 Diario Oficial C 49 de 28.2.2006. [http://europa.eu/legislation\\_summaries/public\\_health/health\\_determinants\\_environment/l28145\\_es.htm](http://europa.eu/legislation_summaries/public_health/health_determinants_environment/l28145_es.htm)
- Últimas orientaciones en Salud Ambiental para la infancia, con especial referencia al cambio climático, Parma, marzo de 2010 (OMS Europa). <http://www.euro.who.int/parma2010>
- Plan Nacional de Salud y Medio Ambiente. Resumen de documentación: <http://www.msc.es/ciudadanos/saludAmbLaboral/medioAmbiente/resumenDocumentacion.htm>

#### **ADDENDUM COVID-19**

**This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council**

**English version is not available**