

**COURSE DATA****DATA SUBJECT****Code:** 42689**Name:** Environment and health**Cycle:** Master's Degree**ECTS Credits:** 3**Academic year:** 2025-26**STUDY (S)**

Degree	Center	Acad. year	Period
2124 - Master's Degree in Public Health and Healthcare Management	Facultat de Farmàcia i Ciències de L'alimentació	1	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2124 - Master's Degree in Public Health and Healthcare Management	Health protection	COMPULSORY

COORDINATION

BALLESTER DIEZ FERRAN

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 / LEARNING OUTCOMES

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Be able to integrate into teams, both as managers or coordinators and for specific and limited functions and in support of the team or of others.

Capacidad de integrar las nuevas tecnologías en su labor profesional y/o investigadora.

Capacidad para aplicar los conocimientos adquiridos a la resolución de problemas en salud pública.

Capacidad para formular una hipótesis, diseñar y desarrollar un proyecto de investigación.

Capacidad para integrar conocimientos y enfrentarse a la complejidad de formular juicios y tomar decisiones a partir de una información que, en muchas ocasiones es incompleta o limitada, e incluya reflexiones sobre las responsabilidades sociales y éticas vinculadas a la aplicación de sus conocimientos y juicios.

Capacitarlo para trabajar en equipos multidisciplinares reproduciendo contextos reales y aportando y coordinando los propios conocimientos con los de otras ramas e intervinientes.

Comprender los fundamentos de los métodos estadísticos y epidemiológicos, en general y aplicados a problemas específicos de salud.

Conocer la evaluación, comunicación y gestión de los riesgos para la salud en materia de sanidad animal y de seguridad alimentaria.

Conocer los conceptos propios de la medicina preventiva, la epidemiología, y la salud pública, su relación con el contexto socioeconómico y su evolución a lo largo del tiempo.

Conocer los fundamentos de las principales estrategias de prevención de la enfermedad, protección y promoción de la salud actualmente disponibles.

Critically analyze both his/her work and that of the colleagues.

Dotarles de práctica en las técnicas de exposición oral, escrita, presentaciones, paneles, etc- para comunicar sus conocimientos, propuestas y posiciones.

Elaborar planes para analizar la situación de la salud de la comunidad.

Identificar y priorizar los determinantes de salud y los estilos de vida saludable de una población.

Participate in, lead and coordinate debates and discussions, be able to summarize them and extract the most relevant conclusions accepted by the majority.

Poder aplicar sus conocimientos sobre problemas concretos y saber resumir y extraer los argumentos y las conclusiones más relevantes para su resolución.

Saber trabajar en equipo con eficacia y eficiencia, y con capacidad de comunicación social.



Ser competente para intervenir en situaciones de emergencia sanitaria.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should demonstrate self-directed learning skills for continued academic growth.

Students should possess and understand foundational knowledge that enables original thinking and research in the field.

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

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	24,00
Total hours	24,00

NON PRESENCIAL ACTIVITIES



Activity	Hours
Attendance at other activities	0,00
Individual or group project	20,00
Independent study and work	15,00
Preparation of lessons	0,00
Preparation for assessment activities	6,00
Resolution of case studies	10,00
Total hours	51,00

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

- 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.
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- 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/
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- 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
- 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/>
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- 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>