Syllabus Master's Degree Course in Medicine and Surgery

HEALTH AND THE CLIMATE CHANGE

First year, second semester (2 academic credits [CFU])

Teachers

Subject	Academic credits (CFU)	Lecturer
Health and the climate change	2	FERRANTE Margherita

Learning outcomes

Subject	Learning outcomes
Health and the climate change	By the end of the course, students are expected to: • Know the link between climatic conditions and communicable and not communicable disease. • Know the One-Health approach for climate change prevention • Be able to transfer and apply the acquired knowledge to implement human health with preventive actions on lifestyles, environment, and in urban contexts.

Prerequisites

Subject	Prerequisites
Health and the climate change	Attainment of the educational objectives set by prerequisite courses.

Course contents

Subject	Course contents
Health and the climate change	• General introduction to the "environment and health"; • Sustainable development; • Biodiversity and human health; • Climate changes/heat waves; • Environmental emergencies and relevant risks; • Inequalities and equity in the distribution of risk and effects on health; • Indoor and outdoor pollution; • Environmental anamnesis, a tool for identifying and evaluating population exposure and responding with preventive measures; • Identification of population groups with the highest vulnerability (children, pregnant women, elderly people, socio-economically deprived classes) in relation to climate change exposures;

	• Evaluation of effectiveness of interventions; • Communication tools for the population; • Evidence-based recommendations; • Databases and documentation in the environmental health field and their use; • Advocacy; • Relationships between prevention departments, family doctors and pediatricians, local authorities and roles in the National Prevention Planes and the National Development Plans.

Assessment methods

Subject	Assessment methods
Health and the climate change	The assessment of acquired knowledge is conducted by an oral examination. The grade is expressed on a scale of thirty, up to a maximum of 30/30 cum laude (with honors). The oral examination consists of an interview during which questions will cover at least three different topics from the course curriculum. The assessments aim to evaluate: i) the level of knowledge of the module; ii) the clarity of presentation; iii) the property of medical-scientific language. The assessment of learning can also be conducted remotely if the conditions necessitate it. For the assignment of the final grade, the following parameters will be considered: • Score 29-30 with honors: The student demonstrates an in-depth knowledge of the topics, promptly and correctly integrates and critically analyzes presented situations, independently solving even highly complex problems. They possess excellent communication skills and command medical-scientific language proficiently. • Score 26-28: The student has a good understanding of the topics, is able to integrate and critically and logically analyze presented situations, can fairly independently solve complex problems, and presents topics clearly using appropriate medical-scientific language. • Score 22-25: The student has a fair understanding of the topics, although it may be limited to the main areas. They can integrate and critically analyze presented situations, although not always in a linear fashion, and present topics fairly clearly with moderate language proficiency. • Score 18-21: The student has minimal knowledge of the topics, possesses modest ability to integrate and critically analyze presented situations, and presents topics sufficiently clearly, although their language proficiency may be underdeveloped. • Exam not passed: The student lacks the minimum required knowledge of the core content of the course. Their ability to use specific language is minimal or nonexistent, and they are unable to independently apply acquired knowledge.

Examples of common questions and/or exercises

Subject	Examples of common questions and/or exercises
Health and the climate change	• What are the effects of climate change on health? • What is the war economy?

	• Explain the relationship between migration, environment and non-communicable diseases.

Reference texts

Subject	Textbooks
Health and the climate change	• Climate Change and Urban Environment Sustainability. Editors: Bhawana Pathak, Rama Shanker Dubey. Springer 2023. https://doi.org/10.1007/978-981-19-7618-6 • Health of People, Health of Planet and Our Responsibility. Editors Wael K. Al-Delaimy, Veerabhadran Ramanathan, Marcelo Sánchez Sorondo. Springer 2020. https://doi.org/10.1007/978-3-030-31125-4 • Climate Change and Human Well-Being. Editor Inka Weissbecker. Springer 2011. https://doi.org/10.1007/978-1-4419-9742-5

Course format

Subject	Textbooks
Health and the climate change	The teaching will primarily be conducted through in-person lectures with a blend of theory and practical exercises. In the event that teaching is delivered in a blended or remote mode, necessary adjustments may be introduced compared to what has been previously stated, in order to adhere to the planned program as outlined in the Syllabus.

Attendance

Subject	Textbooks
Health and the climate change	Mandatory attendance.

Course schedule

Subject	Course schedule
Health and the climate change	• Book 1, chapters 2-4. • Book 2, chapters 1-18. • Book 3, chapters 1-6.