

# SCHEMA DELL' INSEGNAMENTO DI EXTREME ENVIRONMENTS AND PUBLIC HEALTH

Corso di Studio  
Biologia degli Ambienti Estremi

Insegnamento

Laurea/  
Laurea Magistrale/LMcu

A.A. 2020/2021

Docente: Giovanni Libralato

☎ 081 2534624

email: giovanni.libralato@unina.it

SSD MED/42

CFU 6

Anno di corso (I, II, III) I

Semestre (I, II e LMcu) II

Insegnamenti propedeutici previsti: nessuno

## RISULTATI DI APPRENDIMENTO ATTESI

### Conoscenza e capacità di comprensione

*The student must demonstrate the ability to understand problems related to hygiene and public health interconnected to natural and anthropogenic extreme environments (i.e. factors and events conditioning the health of individuals and the community and the related preventive actions). Basic knowledge and methodological tools of hygiene, public health and epidemiology are necessary to analyse and manage complex mono- and multifactorial case studies.*

### Conoscenza e capacità di comprensione applicate

*The student will apply the acquired knowledge to evaluate and quantify epidemiological events and risk factors related to human public health considering both historical and incoming events. The training course will provide operative skills (i.e. why, what, when, where and how to observe) applied to specific case studies.*

### Eventuali ulteriori risultati di apprendimento attesi, relativamente a:

- **Autonomy of judgment:** The student will be able to critically analyse case studies from scientific papers and handbooks via epidemiological and public health analysis in the context of various exposure scenarios, demonstrating the ability to interpret results and suggest appropriate preventive actions; the student must also reach a relative autonomy about the evaluation and interpretation of databases, including original and literature data.
- **Communication skills:** The student will be able to express concepts in a clear way using appropriate scientific technical terminology regarding the issues of extreme environments and public health.
- **Learning skills:** The student will acquire adequate cognitive tools and critical skills for knowledge deepening and continuous training being able to correctly use databases, specialist books, scientific articles, and to approach specialist seminars, and conferences.

## CONTENTS

- *Hygiene background recalls. 1 CFU*
- *Sampling strategies. Data acquisition, analysis, and presentation. 1 CFU*
- *Epidemiology. Risk factors and models. 1 CFU*
- *Extreme environments. 1 CFU*
- *Extreme environments and public health. 1 CFU*
- *Case studies (thermal system; sewage collection system; water systems; air systems; antibiotic resistance). 1 CFU*

## Didactic material

Lectures' notes. Slides. Scientific papers. Numerical case studies.

## FINALITA' E MODALITA' PER LA VERIFICA DI APPRENDIMENTO

### a) Risultati di apprendimento che si intende verificare:

Basic and specialist knowledge of extreme environments and their implications on public health; hygiene of extreme environments; ability to relate the topics developed in the course, to assess and communicate risk, development of problem solving and critical thinking skills.

### b) Modalità di esame:

L'esame si articola in prova	Scritta e orale	x	Solo scritta		Solo orale	x
Discussione di elaborato progettuale						
Altro, specificare						
In caso di prova scritta i quesiti sono (*)	A risposta multipla		A risposta libera	x	Esercizi numerici	x

(\*) E' possibile rispondere a più opzioni

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