



UNIVERSITÀ DI PAVIA

Anno Accademico 2020/2021

ENVIRONMENTAL SCIENCES 1

Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	ENVIRONMENT AND WORKPLACE PREVENTION TECHNIQUES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	Annual (01/10/2020 - 11/06/2021)
ECTS	4
Language	Italian

The activity is split

503511 - ENVIRONMENTAL CHEMISTRY

501317 - MICROBIOLOGY



ENVIRONMENTAL CHEMISTRY	
Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	CHIM/12 (ENVIRONMENTAL CHEMISTRY AND CHEMISTRY FOR CULTURAL HERITAGE)
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	ENVIRONMENT AND WORKPLACE PREVENTION TECHNIQUES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	2nd semester (01/03/2021 - 11/06/2021)
ECTS	2
Lesson hours	16 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	COLLI MAURIZIO - 2 ECTS
Prerequisites	basic level for chemistry inorganic and organic
Learning outcomes	purpose of the course is the attainment of knowledge about the environmental matrices with particular reference to the water and soil matrix
Course contents	Environmental matrices Air Water Soil Air chemistry of atmosphere Main constituents Trace species Atmospheric aerosol Hydroxyl radical Biogeochemical nitrogen cycle Biogeochemical sulfur cycle Carbon biogeochemical cycle PAN-IPA-halogenated-photochemical smog Ozone The Mechanism of Chapman-Photochemical destruction in the troposphere UV flow and atmospheric chemistry INDOOR POLLUTION and carcinogens

classroom lessons

**Reccomended or required
readings**

Material for exam preparation will be provided as slides or notes.

Recommended texts

Applied ecology

Renato Vismara Ed. Hoepli

Organic micropollutants

Silvana Galassi Ed. Hoepli

The air

Beat Meyer Ed. New Techniques

Clean chemistry

Hermann Fischer Ed. New Techniques

Environmental Chemistry Ed. Wiley

Soils and ecosystems

Romano Rasio Ed. Cappelli

The exam will be in written form, with open answers, to 10 questions that cover the entire program of the course.

The adequacy and completeness of the answer will be the indicators to assess the student's degree of learning and the relative attribution of the exam score.



UNIVERSITÀ DI PAVIA

Anno Accademico 2020/2021

MICROBIOLOGY

Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	MED/07 (MICROBIOLOGY AND CLINICAL MICROBIOLOGY)
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	ENVIRONMENT AND WORKPLACE PREVENTION TECHNIQUES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	1st semester (01/10/2020 - 15/01/2021)
ECTS	2
Lesson hours	16 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	MIGLIAVACCA ROBERTA (titolare) - 2 ECTS
Prerequisites	
Learning outcomes	
Course contents	
Teaching methods	
Reccomended or required readings	
Assessment methods	
Further information	
Sustainable development	

