UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2020/21
BACHELOR
Environment and Workplace Prevention Techniques (Classe L/SNT4)
Enrolled since 2011/12 Academic Year

HEADING

Degree classification - Denomination and code:	L/SNT4 Health professions for preventive care
Degree title:	Dottore
Length of course:	3 years
Total number of credits required to complete programme:	180
Years of course currently available:	1st , 2nd , 3rd
Access procedures:	Cap on student, student selection based on entrance test
Course code:	D83

PERSONS/ROLES

Head of Interdepartmental Study Programme

Prof.ssa Luisa Romanò

Tutors - Faculty

Per l'orientamento:
prof.ssa Silvana Castaldi
prof. Paolo Carrer

Degree Course website

https://tpal.cdl.unimi.it/it

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

The specific educational goals that students in the degree programme in Environment and Workplace Prevention Techniques must reach are as follows:
-learn the fundamental principles of physics, chemistry, biology, statistics, and IT in order to recognise and assess the magnitude of environmental and occupational risk factors on human health;
-recognise the biological principles that govern the key mechanisms for the functioning of human organs and apparati;
-gain a foundation in microbiology, biochemistry, human physiopathology and general pathology, in order to conduct a proper healthcare assessment of a person's work and everyday environment;
-know how to tackle occupational safety and health problems using the scientific method;
-be familiar with the leading food-storage and -safety technologies, and be able to assess risks along the food supply chain;
-gain an understanding of the standards established for professional ethics, as well as legal and forensic standards applicable to the profession;
-have a foundation in general psychology, environmental, regional, and organisational sociology;
-understand the basics of pharmacology and toxicology as needed to define the risk of workplace exposure to xenobiotics, and recognise the key mechanisms of toxicity and detoxification, including with respect to carcinogenic substances and agents;
-know the hygiene, structural, and system requirements for commercial and manufacturing operations seeking health-department permits and other authorisations;
-be familiar with regulations governing environmental safety, safety on the job, and safety in everyday life;
-understand the standards and regulations that govern the practice and responsibilities of this profession;
-gain the cultural and professional bases to guide accident- and illness-prevention activities for the individual and the community;
-be familiar with, and gain specific expertise in occupational safety and health, including foundations and methodologies for radiation protection;
-be familiar with the basic principles of occupational injury and disease prevention within various manufacturing segments;
-gain the knowledge necessary to identify and assess the elements in the environment having an impact on health, whether in the air, water, soil, food, or in a workplace.

Professional profile and employment opportunities

Graduates of the Environment and Workplace Prevention Techniques programme will have gained expertise in both theory

and practice, and will have honed skills in analysis, and in vetting the efficacy and efficiency of efforts to safeguard and promote health, as well as communication abilities for both routine and emergency management of issues from a healthcare-science perspective. Graduates thus have a range of employment opportunities, handling preventative efforts as well as inspections and supervision, whether in the public sector (AO, ASL [Health Departments], ARPA [non-profit], ISPESL [Occupational Safety and Health Inspectorate], local entities, etc.) as well as through contracted inspection and prevention entities, or through organisations providing personnel training, or services relating to health safeguards and accident/illness prevention.
As employees or consultants in the private sector, graduates may independently provide professional technical support in the form of planning and organising how work is conducted, in terms of occupational safety and health; in cooperation with the health and safety office, they identify efforts to ensure worker safety and environmental protection. They work in concert with employers and businesses to analyse risks within a company, and generate risk-assessment documents (for workplace safety, food safety, and environmental safety). They conduct environmental surveys to monitor the salubriousness of an environment, whether at home or at work.

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment

The agreements entered into by the University with over 300 universities from 30 different countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organizations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

How to participate in Erasmus mobility programs

The students of the University of Milan can participate in mobility programmes, which last 3 to 12 months, through a public selection procedure.
Ad hoc commissions will evaluate:
• the candidate's proposed study programme abroad;
• his/her foreign language proficiency;
• the reasons behind his/her application.

Call for applications and informative meetings:
The public selection generally begins around February each year with the publication of a call for applications specifying the destinations, with the respective programme duration, requirements and online application deadline.

Every year, before the deadline for the call, the University organizes informative meetings to illustrate opportunities and rules for participation to students.

Erasmus+ scholarship:
The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which is supplemented by the University funding for disadvantaged students.

Language courses:
Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University.

Learn more at https://www.unimi.it/it/internazionale/studiare-allestero/partire-con-erasmus.

For assistance, please contact:
International Mobility Office
Via Santa Sofia, 9 (second floor)
Tel. 02 503 13501-12589-13495-13502
E-mail: mobility.out@unimi.it
Desk opening hours: Monday to Friday 9 am - 12 noon

1st COURSE YEAR Core/compulsory courses/activities common

Learning activity	Ects	Sector
Biochemistry	4	(2) BIO/10, (2) BIO/13
Biomedical Sciences 1	4	(2) BIO/09, (2)

			BIO/16
Biomedical Sciences 2		6	(3) MED/04, (3) MED/07
Chemical And Physical Sciences		7	(1) MED/50, (2) CHIM/03, (2) FIS/07, (2) CHIM/06
Computer Science Course		3	INF/01
English assessment B1 (2 ECTS)		2	ND
Laboratory (Physics And Chemistry)		1	ND
Law Sciences		6	(1) MED/50, (2) IUS/17, (1) IUS/09, (2) IUS/07
Practical Training (1° Year)		12	MED/50
Preventive Sciences		8	(2) MED/50, (3) MED/44, (3) MED/42
Statistics And Epidemiology		5	(1) MED/50, (2) MED/01, (2) MED/42
	Total compulsory credits	58	

Elective courses

2nd COURSE YEAR Core/compulsory courses/activities common

Learning activity		Ects	Sector
Ecosystems And Environmental Quality		6	(2) MED/50, (2) CHIM/12, (1) MED/42, (1) BIO/03
Food Sciences		7	(1) MED/50, (1) AGR/15, (3) VET/04, (2) MED/42
Health Services Management		6	(1) MED/50, (1) M-PSI/06, (1) MED/02, (1) SECS-P/02, (2) MED/42
Interdisciplinary Clinical Sciences 1		6	(1) MED/50, (1) MED/30, (1) MED/33, (1) MED/09, (2) MED/44
Laboratory (Environment)		1	ND
Laboratory (Food)		1	ND
Life Sciences And Health Promotion		6	(1) MED/50, (1) SPS/10, (1) M-PSI/01, (2) MED/44, (1) MED/42
Pharmacology And Toxicology		6	(1) MED/50, (1) MED/44, (1) MED/43, (1) BIO/14, (2) CHIM/09
Practical Trainings (2° Year)		19	MED/50
	Total compulsory credits	58	

Elective courses

3rd COURSE YEAR Core/compulsory courses/activities common

Learning activity		Ects	Sector
Enviromental Health And Safety In The Workplace		7	(3) MED/50, (2) MED/44, (2) MED/42
Interdisciplinary Clinical Sciences 2		5	(1) MED/10, (1) MED/11, (1) MED/32, (1) MED/17, (1) MED/41
Practical Training (3° Year)		29	MED/50
Technical Physics And Industrial Chemistry		7	(2) ING-INF/02, (1) ICAR/03, (2) ING-IND/25, (1) ING-IND/11, (1) MED/36
	Total compulsory credits	48	

Elective courses

COURSE YEAR UNDEFINED Core/compulsory courses/activities common

Learning activity		Ects	Sector
Other Activities		3	ND
	Total compulsory credits	3	

End of course requirements

Final Test		7	NA
	Total compulsory credits	7	

COURSE PROGRESSION REQUIREMENTS

The course contains the following obligatory or advised prerequisites

Learning activity	Prescribed foundation courses	O/S
Pharmacology And Toxicology	Biomedical Sciences 1	Core/compulsory
Biomedical Sciences 2	Biomedical Sciences 1	Core/compulsory
Technical Physics And Industrial Chemistry	Chemical And Physical Sciences	Core/compulsory
Interdisciplinary Clinical Sciences 2	Biomedical Sciences 2	Core/compulsory
Interdisciplinary Clinical Sciences 1	Biomedical Sciences 2	Core/compulsory