UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2019/20
MASTER DEGREE
BIOGEOSCIENCES: ANALYSIS OF ECOSYSTEM AND SCIENZE COMMUNICATION - (Classe LM-60)
enrolled from 2018/2019 academic year

HEADING

Degree classification - Denomination and code:	LM-60 Nature sciences
Degree title:	Dottore Magistrale
Curricula currently available:	Ecosystem analysis, monitoring and management / Science communication, dissemination and teaching
Length of course:	2 years
Credits required for admission:	180
Total number of credits required to complete programme:	120
Years of course currently available:	1st , 2nd
Access procedures:	Open, subject to entry requirements
Course code:	F2B

PERSONS/ROLES

Head of Interdepartmental Study Programme

Prof.ssa Lucia Angiolini

Degree Course Coordinator

Prof.ssa Lucia Angiolini

Tutors - Faculty

Curriculum ANALISI, MONITORAGGIO E GESTIONE DEGLI ECOSISTEMI
Roberta Pennati, Marco Caccianiga, Cristina Bonza, Maria Rose Petrizzo

Curriculum COMUNICAZIONE, DIVULGAZIONE E METODOLOGIE DIDATTICHE DELLE SCIENZE
Manuela Pelfini, Alessandra Moscatelli, Morena Casartelli, Paolo Tremolada

Degree Course website

http://www.ccdnat.unimi.it

via Mangiagalli 34 (primo piano) Email: lucia.angiolini@unimi.it

via Mangiagalli 34 (piano terra) orari apertura Sportello Didattica: consultare il sito https://www.unimi.it/it/node/12856/
Email: cclsn@unimi.it

via Celoria 18 Phone +39 02 5032 5032 orari apertura dello sportello: consultare il sito https://www.unimi.it/it/node/359/

CHARACTERISTICS OF DEGREE PROGRAMME

Notes

In order to get their degree, students are required to certify their knowledge of the English language at the B2 level. This level can be certified in one of the following ways:
* by submitting their language certificate, taken no more than 3 years before its submittal and attesting a B2 o higher level (for the list of the language certificates which are accepted by the University of Milan, please refer to the website: http://www.unimi.it/studenti/100312.htm).
Students can submit their language certificate during the immatriculation procedure or send it to the Language Centre of the University of Milan (SLAM) via the Infostudente service.
* by sitting the placement test run by SLAM, during the first year exclusively, from September to February of the following year. Should they not pass the Placement Test, students will have to attend the English language course organized by SLAM.
All students who do not have a valid language certificate must sit the Placement Test. Those students who do not sit the Placement test by February or do not pass the end of course test in one of the 6 attempts granted will have to get a language certificate outside the University of Milan within their degree.

1st COURSE YEAR Core/compulsory courses/activities common to all curricula

Learning activity		Ects	Sector
English proficiency B2 (3 ECTS)		3	L-LIN/12
	Total compulsory credits	3	

ACTIVE CURRICULA LIST

Ecosystem analysis, monitoring and management Course years currently available: 1st , 2nd
Science communication, dissemination and teaching Course years currently available: 1st , 2nd

CURRICULUM: [F2B-A] Ecosystem analysis, monitoring and management

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Ecosystem analysis, monitoring and management

Learning activity		Ects	Sector
Methods in Ecosystem analysis		12	GEO/04, BIO/07, BIO/03
	Total compulsory credits	12	

Further elective courses Curriculum-specific features Ecosystem analysis, monitoring and management

Astronomy	6	FIS/05
Data Collection, Representation and Analysis	6	SECS-S/01
Environmental chemistry	6	CHIM/12
Geographic Information Systems and Environmental Modelling	6	INF/01
Environmental economics and policy	6	AGR/01
Environmental Ethic	6	AGR/01
Population Biology and Genetics	6	AGR/07
Alpine Glaciology and Climatology	6	GEO/04
Applied geomorphology	6	GEO/04
Geomorphological heritage and geodiversity	6	GEO/04
Plant ecology	6	BIO/03
Quantitative ecology	6	BIO/07
Applied palaeoecology	6	GEO/01
Biomineralization	6	GEO/01
Environmental Geochemistry	6	GEO/08
Gemology	6	GEO/06, GEO/09
Geological evolution of a habitable planet	6	GEO/02
Geology of the Mediterranean area	6	GEO/03, GEO/07
Stratigraphic Paleontology	6	GEO/01
Vertebrate paleontology	6	GEO/01
Adaptation of animals and plants to environment	6	BIO/09, BIO/04
Anatomy and physiology of the integrated systems	6	BIO/09, BIO/06
Animal behaviour	6	BIO/05
Applied geobotany	6	BIO/02
Biogeography	6	BIO/05, BIO/02
Laboratory methods for biodiversity	6	BIO/06, BIO/05, BIO/01
Palynology	6	BIO/02
Phylogeny and evolution	6	BIO/05
Wildlife management	6	BIO/05
Anthropology	6	BIO/08
Control strategies for insect pests and vectors	6	VET/06, AGR/11
Forensic sciences	6	MED/43
Geophysics for natural risks	6	GEO/12, GEO/11
Mathematical Modeling	6	MAT/07
Micropedology Laboratory	6	AGR/14
Principles And Dynamics of the "Critical Zone"	6	AGR/14
Symbiosis and parasitism	6	AGR/11
Vertebrate paleontology and paleontological heritage	6	GEO/01

End of course requirements Curriculum-specific features Ecosystem analysis, monitoring and management

Final exam		39	ND
	Total compulsory credits	39	

CURRICULUM: [F2B-B] Science communication, dissemination and teaching

1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Science communication, dissemination and teaching

Learning activity	Ects	Sector

Teaching methodologies and techniques for biogeosciences		12	(6) GEO/04, (6) BIO/07
	Total compulsory credits	12	

Further elective courses Curriculum-specific features Science communication, dissemination and teaching

Astronomy	6	FIS/05
Comunication and teaching of Mathematics	6	MAT/04
Data Collection, Representation and Analysis	6	SECS-S/01
Geographic Information Systems and Environmental Modelling	6	INF/01
Geometry in natural and anthropic environments and its teaching	6	MAT/03, MAT/04
Environmental economics and policy	6	AGR/01
Environmental Ethic	6	AGR/01
Fundamentals of psychology	6	M-PSI/01
General pedagogy	6	M-PED/01
Methods of communication	6	SPS/08
Applied geomorphology	6	GEO/04
Geomorphological heritage and geodiversity	6	GEO/04
Plant ecology	6	BIO/03
Geological evolution of a habitable planet	6	GEO/02
Geology of the Mediterranean area	6	GEO/03, GEO/07
Stratigraphic Paleontology	6	GEO/01
Vertebrate paleontology	6	GEO/01
Anatomy and physiology of the integrated systems	6	BIO/09, BIO/06
Biogeography	6	BIO/05, BIO/02
Cell biology	6	BIO/06, BIO/16, BIO/01
Human Anatomy	6	BIO/16
Phylogeny and evolution	6	BIO/05
Anthropology	6	BIO/08
Communication, dissemination and teaching of natural sciences	6	M-PED/03
Elementary Mathematics Teaching Workshop	6	MAT/04
History and teaching of Physics	6	FIS/08
Mathematical Modeling	6	MAT/07
Social anthropology	6	M-DEA/01
Symbiosis and parasitism	6	AGR/11
Urban and regional geography	6	M-GGR/01
Vertebrate paleontology and paleontological heritage	6	GEO/01
Teaching methodologies and techniques for biosciences	6	BIO/07
Teaching methodologies and techniques for geosciences	6	GEO/04

End of course requirements Curriculum-specific features Science communication, dissemination and teaching

Final exam		33	ND
	Total compulsory credits	33	