



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2018/19**  
**MASTER DEGREE**  
**BIOGEOSCIENCES: ANALYSIS OF ECOSYSTEM AND SCIENZE**  
**COMMUNICATION - (Classe LM-60)**  
**enrolled from 2018/2019 academic year**

### HEADING

<b>Degree classification - Denomination and code:</b>	LM-60 Nature sciences
<b>Degree title:</b>	Dottore Magistrale
<b>Curricula currently available:</b>	Ecosystem analysis, monitoring and management / Science communication, dissemination and teaching
<b>Length of course:</b>	2 years
<b>Credits required for admission:</b>	180
<b>Total number of credits required to complete programme:</b>	120
<b>Years of course currently available:</b>	1st
<b>Access procedures:</b>	Open, subject to completion of self-assessment test prior to enrolment
<b>Course code:</b>	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](mailto: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](mailto:cclsn@unimi.it)

via Celoria 26 Phone +39 02 5032 5032 orari apertura dello sportello: consultare il sito <https://www.unimi.it/it/node/359/>

<b>1st COURSE YEAR Core/compulsory courses/activities common to all curricula</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Advanced english	3	L-LIN/12
Total compulsory credits		3

### ACTIVE CURRICULA LIST

Ecosystem analysis, monitoring and management Course years currently available: 1st

Science communication, dissemination and teaching Course years currently available: 1st

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

<b>1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Ecosystem analysis, monitoring and management</b>			
Learning activity		Ects	Sector
Methods in Ecosystem analysis		12	(12) GEO/04, (12) BIO/07, (12) BIO/03
Total compulsory credits		12	
<b>Further elective courses Curriculum-specific features Ecosystem analysis, monitoring and management</b>			
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	
Biominalization	6	GEO/01	
Environmental Geochemistry	6	GEO/08	
Geological evolution of a habitable planet	6	GEO/02	
Geology of the Mediterranean area	6	(6) GEO/03, (6) GEO/07	
Stratigraphic Paleontology	6	GEO/01	
Vertebrate paleontology	6	GEO/01	
Adaptation of animals and plants to environment	6	(6) BIO/09, (6) BIO/04	
Anatomy and physiology of the integrated systems	6	(6) BIO/09, (6) BIO/06	
Animal behaviour	6	BIO/05	
Applied geobotany	6	BIO/02	
Biogeography	6	(6) BIO/05, (6) BIO/02	
Laboratory methods for biodiversity	6	(6) BIO/06, (6) BIO/05, (6) 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	(6) VET/06, (6) AGR/11	
Forensic sciences	6	MED/43	
Geophysics for natural risks	6	(6) GEO/12, (6) GEO/11	
Mathematical Modeling	6	MAT/07	
Mircopedology Laboratory	6	AGR/14	
Principles And Dynamics of the "Critical Zone"	6	AGR/14	
Symbiosis and parasitism	6	AGR/11	
<b>End of course requirements Curriculum-specific features Ecosystem analysis, monitoring and management</b>			
Final exam		39	ND
Total compulsory credits		39	

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

<b>1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features Science communication, dissemination and teaching</b>			
Learning activity		Ects	Sector
Teaching methodologies and techniques for biogeosciences		12	(6) GEO/04, (6) BIO/07
Total compulsory credits		12	
<b>Further elective courses Curriculum-specific features Science communication, dissemination and teaching</b>			
Astronomy	6	FIS/05	
Communication 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	(6) MAT/03, (6) MAT/04	
Environmental economics and policy	6	AGR/01	

Environmental Ethic	6	AGR/01
Fundamentals of psychology	6	M-PSI/01
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	(6) GEO/03, (6) GEO/07
Stratigraphic Paleontology	6	GEO/01
Vertebrate paleontology	6	GEO/01
Anatomy and physiology of the integrated systems	6	(6) BIO/09, (6) BIO/06
Biogeography	6	(6) BIO/05, (6) BIO/02
Cell biology	6	(6) BIO/06, (6) BIO/16, (6) 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
Teaching methodologies and techniques for biosciences	6	BIO/07
Teaching methodologies and techniques for geosciences	6	GEO/04
<b>End of course requirements Curriculum-specific features Science communication, dissemination and teaching</b>		
Final exam	33	ND
Total compulsory credits		33