



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2023/24**  
**MASTER DEGREE**

**ANALYSIS, PLANNING AND SUSTAINABLE MANAGEMENT OF  
LAND AND TERRITORY (Classi LM-48/LM-80)**  
**Enrolled from 2022/23 academic year**

### **HEADING**

<b>Degree classification - Denomination and code:</b>	LM-48/LM-80
<b>Degree title:</b>	Dottore Magistrale
<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 , 2nd
<b>Access procedures:</b>	Open, subject to entry requirements
<b>Course code:</b>	F7B

### **PERSONS/ROLES**

#### **Head of Interdepartmental Study Programme**

prof.ssa Guglielmina Diolaiuti

#### **Tutors - Faculty**

Tutor per le ammissioni:  
dott.ssa Antonella Senese

Tutors per i piani di studio e per l'orientamento:

prof. Felice D'Alessandro  
prof.ssa Alice Dal Borgo  
prof.ssa Guglielmina Diolaiuti  
prof. Paolo Lotti  
prof. Michele Zucali  
dott.ssa Antonella Senese

Tutors per il Trasferimenti e riconoscimento carriera pregressa

prof.ssa Manuela Pelfini  
dott.ssa Alessandra Costanzo  
dott.ssa Antonella Senese

Tutor per il programma Erasmus:

prof. Luigi Orsi

Tutor per la sicurezza sul campo:

prof. Roberto Ambrosini

Tutor per la disabilità:

prof.ssa Guglielmina Diolaiuti

#### **Degree Course website**

<https://apgest.cdl.unimi.it>

#### **Course management**

Via Celoria, 2 - II piano Phone 02503 16501 / 16475 Contattaci attraverso InformaStudenti <https://www.unimi.it/it/node/359>

#### **Student registrar**

Via Celoria, 18 Phone 02503 25032 <https://www.unimi.it/it/node/360>

#### **Link to degree course regulations**

<https://www.unimi.it/it/corsi/corsi-di-laurea/analisi-pianificazione-e-gestione-sostenibile-del-territorio>

## CHARACTERISTICS OF DEGREE PROGRAMME

### General and specific learning objectives

The master's degree program in Analysis, planning and sustainable management of the territories was conceived, designed and is managed jointly by three Departments of the University of Milan: the Department of Environmental Sciences and Policies - ESP -, the Department of Cultural and Environmental Heritage -BAC- and the "Gardito Desio" Earth Sciences Department -DST-. The three departments together guarantee the coverage of teachings with scientists who are experts in geography, land, environmental and landscape sciences.

The master's degree program in Analysis, planning and sustainable management of the territories is a two-year course that trains LM 48 and LM 80 graduates who, regardless of the degree class, will be:

- prepared in the field of : i) geographic sciences, ii) cartographic representation and communication of the cultural and environmental heritage of the territory;
- able to use traditional and innovative tools in the geographical, cartographic and land planning fields for the analysis, management and representation of territorial data;
- able to develop and coordinate environmental and landscape management, regeneration and restoration projects and projects for the enhancement and promotion of territories in the context of regional, national and international calls;
- able to collaborate with interested parties to encourage communication and the promotion of a culture oriented towards the protection and enhancement of the landscape and the territory.

In addition, graduates:

- will be able to describe and analyse not only the transformations on an urban and territorial scale that characterize a specific territory, but also they will recognize and describe all the socio-economic processes and dynamics that are both the origin and the result of these transformations;
- will know the characteristics, purposes and field of application of various urban planning tools, and will be able to contribute to their drafting, revision or updating;
- will know the architecture and operation of various geographic information systems (GIS) for the analysis and management of the territory and the production of digital cartography.

Furthermore:

- graduates of the LM-80 class will also acquire knowledge and skills useful for accessing subsequent courses and competitions for teaching geography in Italy in the specific A21 class;
- LM 48 graduates will acquire the knowledge and skills necessary to independently draw up planning tools and related implementation devices.

To achieve these objectives, the course is organized in such a way as to provide all enrolled students with the cultural bases of geographic sciences, urban and land planning. This takes place through a common first year with basic courses characterizing both classes and with a second year that still includes a large part in common.

Upon enrollment, the students must choose the master's degree class in which they will obtain the degree (LM 80 or LM 48). The students can also change the choice of the master's degree class within the second year, thanks to the fact that most of the study path is common to the two classes and allows for ongoing changes. For the choice of the most suitable degree class for their professional aspirations and for changes in progress, the students will make use, if desired, of the advice of the tutor teacher (to whom each student is assigned from the first year) who will also support the selection of free choice courses and internships.

### Expected learning outcomes

Knowledge and understanding:

All graduates in analysis, planning and sustainable management of the territories will have theoretical knowledge and skills in the following fields: geography, ecology, applied economics (policies and tools for territorial sustainability), urban planning law, urban planning and land planning, geographic information systems, statistics, physical geography and cartography, communication and enhancement of territorial systems and the cultural and environmental heritage of the territories.

They will also be able to choose similar and supplementary courses that allow them to build a wealth of knowledge and skills in: remote sensing and its applications, representation of geographical data, history of architecture, landscape architecture, economic-political geography, didactics of geography, ecology of environment and landscape, biogeography, applied geomorphology, structural geology for landscape evolution, environmental and economic relevance of geo-resources, applied geology for the knowledge and management of environmental and hydrogeological risk, land management, sustainable economy of water resources.

The knowledge and skills acquired during the two-year period will allow graduates in Analysis, planning and sustainable management of the territories to understand:

- cartography and digital products representing the territory, its characteristics and resources;
- the complexity of the territory and landscape and their evolution based on natural and anthropogenic forcing;
- territorial management policies with particular reference to the problems of rural and extra-urban areas;
- even complex and specialized analyses of territorial, landscape and environmental structures;
- urban and territorial projects;
- environmental policies;

- the processes of economic integration;
- the legislation that regulates the environmental responsibility of local authorities and the sustainable use of the natural and cultural resources of the territories.
- the evaluation of the environmental assets and the natural and cultural resources of the territories;
- the relationships between tourism, use of the territories and sustainability;
- the strategies for the promotion and enhancement of the territories on a national and international scale;

Furthermore, students enrolled in the degree course in Analysis, planning and sustainable management of the territories are expected to extend and deepen the knowledge thus acquired by participating in seminars conducted by external experts (offered by the degree course and by the university), with the consultation of bibliographic materials and databases online (thanks to the active agreements for students with the university digital library) and with the thesis work.

Individual learning is mainly assessed through the exams and, for some quantitative courses, on the basis of tests carried out in computer rooms or the presentation and discussion with the teacher of educational projects (urban planning, territorial analysis or production of thematic cartography) that demonstrate the autonomy of analysis and execution acquired by the student and the mastery of the acquired knowledge and IT tools.

The thesis provides a further opportunity to verify the understanding of the topics covered in the degree course and the student's autonomy in carrying out an original research / product / project

Applying knowledge and understanding:

Graduates in analysis, planning and sustainable management of the territories will be able to:

- use traditional and innovative tools in the geographical, cartographic and territorial planning fields for the analysis, management and representation of territorial data;
- contribute to the drafting, revision or updating of various urban planning tools, whether these are at a regional level (such as the Regional Landscape Plan), at a general level (such as the General Town Plan) or at an implementation level (such as the Detailed Plan and the Allotment Plan) ;
- develop and coordinate environmental and landscape management, regeneration and restoration projects and projects for the enhancement and promotion of the territories in the context of regional, national and international calls;
- collaborate with interested parties to foster communication and the promotion of a culture oriented towards the protection, enhancement and enjoyment of the landscape and the territory;
- describe and analyze not only the transformations on an urban and territorial scale that characterize a specific city and a territory, but also all the socio-economic processes and dynamics that are both the origin and the result of these transformations;
- use different geographic information systems (GIS) for the analysis and management of the territory and the production of cartography;
- know and correctly use methods, techniques and strategies for the dissemination and communication of geographic knowledge, declining contents and information at different levels according to the audience to which they are addressed;

The skills to apply knowledge and understanding are also learned through exercises and internships offered by the Master's Degree Course in Analysis, Planning and Sustainable Management of the Territories and considered indispensable to move from the theoretical to the practical-applicative approach.

In the didactic laboratories, real case studies will be dealt with, capable of presenting students with possible professional problems to be solved. The presence of at least one compulsory external internship in organizations and companies in the sector has been introduced as a fundamental tool to verify in the field what has been learned in the classroom during lectures and didactic laboratories.

Individual learning is verified during the course through a participatory approach by the students, assessed mainly through written and oral exams oriented to problem solving and planning. The ability to apply the knowledge acquired in the degree course finds expression in the degree thesis, which also offers a possibility of verification.

Making judgments:

Graduates in analysis, planning and sustainable management of the territory will have to acquire a full capacity to formulate autonomous and conscious judgments by developing critical skills on: the effects and effectiveness of economic policy decisions in the environmental, planning and territorial design fields, also with reference to the ethical implications of actions, decisions and projects; the consequences on the landscape and its resources of development projects and land planning; the environmental, economic and social impacts on the territories and the landscape of tourist attendance; the effectiveness and applicability of different communication strategies and promotion of the environmental and cultural values of the territories.

The interdisciplinary approach of the degree program favours the development of autonomous judgment and critical reasoning skills, offering students the opportunity to compare methodological approaches belonging to different disciplines: geographical, economic, urban planning, land planning and design, legal and of communication. The presence of economic teachings applied to territorial and landscape problems provides skills that facilitate the learning of the scientific approach to problem solving. An important role is played by the thesis work, which requires students to know how to combine theoretical reflections and empirical tests.

These skills will also be verified through internships, and laboratories carried out in universities and in professional studios and companies where students enrolled in the degree course will have to collaborate in the development of projects for management, regeneration and environmental and landscape restoration and for the enhancement and promotion of the territories. Finally, students will also have to fully assimilate the principles of professional ethics that guide interpersonal relationships in the reference occupational contexts and will also have to acquire the fundamental principles of the scientific

approach to the solution of economic, economic-territorial and territorial and landscape planning problems they will face in their professional activity.

#### Communication skills:

A 3 ECTS transversal skills laboratory dedicated to communication is foreseen and compulsory for all students. Furthermore, graduates will be able to: -effectively present and communicate the results of their work (projects, reporting, documentary analysis, studies and research, thematic cartography, etc.) both in national and international institutional contexts, and within companies and professional studies;

- argue their positions and communicate clearly and effectively in Italian and English (for this second language, in fact, they must achieve level B2 during the two-year course), in written and oral form;
- set up cooperative and collaborative relationships within working groups;
- present proposals and solutions to the problems of the working contexts of reference using quantitative tools;
- access a more specialized audience, for example by publishing the results of their research in trade journals.

Furthermore, master's graduates will be able to enhance and promote territories and their environmental and cultural heritage.

All these communication skills and competences will be acquired during the two-year course, first of all by attending individual courses which in many cases include the presentation to the teacher and other students of reports and personal insights in the form of oral reports supported by images, slides and videos. The ability to communicate is verified in the exams and contributes to the overall judgment, specifically in the case of courses that include their acquisition among the educational objectives.

#### Learning skills:

Graduates will have the ability to develop and deepen their skills by: -consulting specialized scientific publications;

- consultation of databases and other information online; the analysis of information and data through GIS (Geographic Information Systems) and econometric tools.

In addition, the course provides the methodological skills that foster the ability to further learning both to independently undertake a professional path aimed at exercising managerial functions or responsibilities in the various sectoral areas of land planning and design, environmental design and enhancement, and promotion of the environmental and cultural heritage of the territories, both to develop that research autonomy that is indispensable for undertaking professional activities in research institutions, studios and offices, or to continue studies in second-level university masters or in programs of Ph.D.

### Professional profile and employment opportunities

#### 1. LAND PLANNER

Function in a work context:

The Land Planner is an LM 48 graduate who, after passing the qualification exam, will be able to work as an expert designer and freelancer directly in the drafting of planning tools and implementation devices related to them.

Among other things, the land planner is a reference figure for:

- land, landscape, environmental and urban planning;
- carrying out and coordinating complex and specialized analyses of territorial, landscape and environmental structures;
- coordination and management of environmental assessment and feasibility activities of territorial plans and projects;
- the drafting of planning tools and related implementation devices.

skills associated with the function:

To carry out these functions, thanks to the courses and workshops provided by the master degree plan and also through external internships and the preparation of the degree thesis, graduates will acquire the following skills:

- knowledge of construction and management of geographic information systems (GIS) for the analysis and management of the territory;
- capacity of analysis, monitoring and territorial and environmental evaluation;
- knowledge of the management and evaluation procedures of territorial planning acts and related complex programs;
- ability to draft planning tools and related implementation devices.

#### Career opportunities:

Thanks to the transversal and multidisciplinary skills that they possess and that they have acquired during their studies, the land Planners are fundamental and indispensable professionals. They will play a crucial role in the drafting and elaboration of any urban planning tool, at a regional level (such as the Regional Landscape Plan), at a general level (such as the General Town Plan) and at an implementation level (such as the Detailed Plan and the Allotment Plan). In Italy they can therefore be employed in the public administration (Regions, Provinces, Municipalities, Mountain Communities, in the technical offices and land registers, in the general and local directorates dedicated to the territory), in professional engineering and architecture studios, in associations and organizations for the protection and enhancement of the territory and its resources. LM 48 graduates will be able to draw up planning tools and implementation devices related to them and will be able to carry out this activity independently as expert designers and freelancers after passing the state qualification exam.

#### 2. GEOGRAPHER

function in a work context: The geographer is an LM 80 graduate who, in the context of support for the complex processes

of landscape protection, planning and management, will be able to be complementary with other professional figures specialized in design, urban and planning and land management. The Geographer will be able to collaborate in the creation of: - cognitive frameworks and landscape reports; - traditional cartographic representations and in GIS environment; - monitoring of landscape context transformations; - mapping of possible critical issues related to unsustainable transformations of the territories; - landscape quality recognition activities and for the identification of prescriptions for the use of landscape assets. The Geographer can also operate in the sector of the production of thematic digital cartography at different scales, in the drafting of technical texts and as a specialist in the recovery and conservation of the territories. Finally, Geographers can collaborate with other professional figures specialized in the fields of communication and education to build strategies and manage projects in many areas: - communication and awareness on landscape matters; - environmental, landscape and sustainability education as a function of the school system at all levels and of the general public; - participatory processes related to territorial management. They will also be able to draw up editorial projects, carry out communication projects relating to the landscape through social media, prepare proposals in response to national and international tenders and calls aimed at raising funds for the management, recovery and/or protection of the landscape.

Skills associated with the function:

LM80 graduates will be able to carry out the functions listed above, first of all thanks to knowledge of: i) the characteristics of landscapes and the territorial processes that determine their evolution, ii) the regulatory bases of the protection and management of landscapes, and iii) the principles and tools of sustainability. Moreover they will have specific skills in analyzing the landscape and its representations (including, for example: collecting information from different sources, direct and indirect, in an organized manner, designing and carrying out field surveys, analyzing data, using GIS).

They will also have developed the skills useful for the critical deepening of knowledge on landscape, for the interpretation and evaluation of landscape dynamics and, through both geographical studies and multidisciplinary insights, transversal skills particularly useful in this field in which it is necessary to be able to integrate disciplinary knowledge and different territorial scales. To further advance the skills related to the aforementioned functions, the LM80 graduates will be able to consider continuing the third level university education (e.g.: II level Master, etc..)

Employment opportunities:

The skills of the LM80 graduates are required in public administrations at various scales, national and international agencies, consortia and other territorial management bodies, non-governmental organizations, consultancy firms. In addition, LM80 graduates will be able, as required by current legislation, to access preparatory and qualifying courses for teaching geography in the secondary school.

### Initial knowledge required

Graduates in the degree classes:

L-6 Geography,

L-21 Territorial, urban, landscape and environmental planning sciences and, L-32 Sciences and technologies for the environment and nature, as well as in the corresponding classes relating to the D.M. 509/99, as well as four-year graduates in old master degree classes, can access to the degree Master course in Analysis, and planning and sustainable management of territories. Those who have a degree from another bachelor class can also access it, provided that they demonstrate that they possess the necessary skills to successfully pursue their studies and that they have acquired 60 ECTS in at least four distinct groups of scientific-disciplinary sectors among those below specified:

- agronomic-biological-ecological group: AGR / 01- / 03, AGR / 05, AGR / 08- / 10, BIO / 03, BIO / 05, BIO / 07;
- anthropological-psychological-social group: BIO / 08, M-DEA / 01, M-PSI / 01, M-PSI / 05, SPS / 07- / 10;
- architectural-engineering and territorial planning group: ICAR / 01- / 05, ICAR / 15, ICAR / 18, ICAR / 20- / 22;
- chemical-physical-geological group: CHIM / 03, CHIM / 06, CHIM / 12, FIS / 06- / 07, GEO / 02- / 03, GEO / 05, GEO / 09, GEO / 10- / 12;
- economic-legal group: ING / IND / 35, IUS / 01, IUS / 03- / 04, IUS / 09- / 10, IUS / 13- / 14, SECS-P / 01- / 03, SECS-P / 05- / 08, SECS-P / 12;
- geographical group: GEO / 04, M-GGR / 01- / 02;
- computer-mathematical-statistical and land representation group: ICAR / 06, ICAR / 17, INF / 01, ING-INF / 03, ING-INF / 05, MAT / 01- / 09, SECS-S / 01- / 06.

Finally, candidates who are in possession of another bachelor qualification obtained abroad and recognized as suitable will be able to be enrolled, provided that they demonstrate that they possess the curricular requirements and the adequacy of the personal preparation necessary to successfully pursue their studies. The personal preparation of all candidates will be verified through an interview that will be carried out in the presence or remotely by a commission appointed by the Interdepartmental teaching Board. The date of the interview will be agreed with the student.

The interview can also be carried out before obtaining the three-year bachelor's degree which, in order to enroll for the 2023-2024 academic year, must be completed by 31 December 2023.

If the commission set up for this purpose should judge the preparation of the candidates insufficient, they will not be admitted to the Master degree course APGEST and they will be advised, if they wish, to reapply for the following year, after having filled the cultural gaps. An opportunity could be, for example, through attendance and passing of exams of single courses of Bachelor degree programs offered by UNIMI or by other Italian universities that offer single courses.

The following year they will be able to present themselves with certificates of attendance and passing of course exams in sectors deemed necessary (with reference to the 60 ECTS in at least 4 different disciplinary fields to be demonstrated during

the interview) and, if the commission will deem that they have filled the gap culture, they may be admitted.

Upon enrolment, the students must choose the master's degree class in which they will obtain the degree (LM 80 or LM 48). The students can also modify the choice of the master's degree class within the second year. The students will be assisted in the choice by the tutor to whom they will have been assigned from the first year, in order to choose the class that best suits their professional aspirations.

Students who, starting from the academic year 2023/24, apply for a transfer to Analysis, planning and sustainable management of the territories, coming from other master's degree programs of the Milan University or other universities, will also be interviewed for admission. In addition, in this case the commission will verify the possibility for applicants to be admitted and if in the first or second year. The commission will also evaluate the possibility of partially or totally validating the master's exams taken at other degree courses or other universities if they are consistent in content and objectives with the teaching programs envisaged in Analysis, planning and sustainable management of the territories.

### **Compulsory attendance**

Attendance is highly recommended, but not compulsory.

### **Internship criteria**

A 3CFU internship is planned for all students (equal to about 150 hours) to be carried out preferably outside the university, or to be carried out in the context of professional study, institution or company (also abroad), to consolidate outside the university what has been learned in the classroom and in the UNIMI laboratories.

For the choice of internship, the student will make use of the advice of the tutor teacher to whom he is assigned from the first year who will also support the choice of free-choice courses.

The place of the internship can be chosen by the student by drawing on the COSP database (<https://www.unimi.it/it/studiare/stage-e-lavoro/stage-e-tirocini>) or through the activation of new agreements, also thanks to the activity of the tutor teachers and the Steering Committee of the degree course who will expand the possibilities of carrying out internships and internships in Italy and abroad for students of the degree course in Analysis, Planning and Sustainable Management of the Territories.

The internship can be linked to the thesis work and contribute to data collection and project development.

### **Degree programme final exams**

The final test is an original and experimental thesis. The thesis can also be declined as:

- a territorial planning,
- a territorial regeneration or
- a territorial analysis project, even complex,

which allows students to demonstrate (in the presentation and discussion of the project in front of the graduate commission) autonomy in the execution of projects and analysis, critical and synthesis skills, expository skills (use of disciplinary lexicons) and skills acquired in the two-year period.

The experimental thesis will be presented and discussed publicly and will lead students to achieve 12 ECTS. At the end of the discussion, the candidate will be proclaimed a Master's degree in the degree class in which he is enrolled (LM 48 or LM 80).

The thesis supervisor is a teacher belonging to the interdepartmental didactic college.

### **Campus**

Lectures will be held in Citta Studi and in Via Festa del Perdono.

<https://www.unimi.it/it/ateneo/uffici-e-strutture>

### **Notes**

In order to obtain their degree, students must be proficient in English at a B2 level. This proficiency level may be certified as follows:

- By submitting a language certificate attesting B2 or higher level in English and issued no more than three years before the date of submission. You will find the list of language certificates recognized by the University at: <https://www.unimi.it/en/node/297/>). The certificate must be uploaded during the enrolment procedure, or subsequently to the portal <http://studente.unimi.it/uploadCertificazioniLingue>;
- B2 or higher level achieved during a University of Milan degree programme and certified by the University Language Centre (SLAM) no more than four years before the date of admission application. In this case the process is automatic, the applicant does not have to attach any certificates to the application
- Through a placement test administered by the SLAM between October and January of year 1. Applicants who fail the test will be required to take a SLAM course.

The placement test is mandatory for all those who do not hold a valid certificate.

Those who do not take the placement test by January or do not pass the end-of-course exam after six attempts must obtain the necessary certification privately before graduating.

## 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 the 27 EU member 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.

### Study and internships abroad

Students of the Master degree course in Analysis, planning and sustainable management of the territories who wish to participate in the ERASMUS and ERASMUS + programs will have 3 Erasmus contact persons at their disposal, one for each of the partner departments, and will be able to count on at least 6 agreements with foreign universities ( 2 for each department involved). Abroad, as part of the ERASMUS and ERASMUS+ programmes, students will be able to:

- obtain credits by following courses and passing the relative exams for the free choice 9 ECTS;
- carry out internships in foreign companies and professional studios;
- carry out all or part of the degree thesis (agreeing on the topic and implementation phases also with a UNIMI professor within the interdepartmental teaching board).

### How to participate in Erasmus mobility programs

The students of the University of Milan can participate in mobility programmes, through a public selection procedure.

Ad hoc commissions will evaluate:

- Academic career
- 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 for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organizes informative meetings to illustrate mobility opportunities and rules for participation.

Erasmus+ scholarship

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be 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 Language Centre (SLAM).

<https://www.unimi.it/en/node/8/>

Learn more at <https://www.unimi.it/en/node/274/>

For assistance, please contact:

International Mobility Office

Via Santa Sofia 9 (second floor)

Tel. 02 503 13501-12589-13495-13502

Contacts: InformaStudenti; [mobility.out@unimi.it](mailto:mobility.out@unimi.it)

Student Desk booking through InformaStudenti

<b>1st COURSE YEAR Core/compulsory courses/activities common</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
	6	IUS/10
Ecology	6	BIO/07
English proficiency B2 (3 ECTS)	3	ND
Information Systems and statistics for the territory	12	(6) SECS-S/01, (6) INF/01
Physical geography and land use planning	6	GEO/04
Policies and tools for the sustainability of the rural territory	6	AGR/01
Urban Planning and Design I	12	(6) ICAR/20, (6) ICAR/21
Valorization of cultural and territorial heritage	9	M-GGR/01
	Total compulsory credits	60

<b>2nd COURSE YEAR Core/compulsory courses/activities common</b>			
<b>Learning activity</b>		<b>Ects</b>	<b>Sector</b>
Soft skill lab: public speaking		3	NA
Urban Planning and Design II		12	(6) ICAR/20, (6) ICAR/21
		Total compulsory credits	15
<b>Elective courses</b>			
<b>Choose one course from the following courses. Each course will be activated if chosen by a minimum number of students</b>			
Landscape systems analysis		9	M-GGR/01
Representation and communication of the territory		9	M-GGR/01
Territorial Systems and Local Development		9	M-GGR/01
<b>Acquire 12 CFU from the following courses:</b>			
Applied Geomorphology		6	GEO/04
Biogeography		6	BIO/05
Environmental and economic relevance of georesources		6	GEO/09
Environmental Anthropology		6	M-DEA/01
Landscape Ecology		6	BIO/03
Mixed farming systems and landscape		6	AGR/18
Place Management		6	SECS-P/08
Remote sensing, geomatics and spatial planning		6	ICAR/06
Social psychology for sustainability and participation		6	M-PSI/05
Structural Geology and Landform evolution		6	GEO/03
<b>Further elective courses</b>			
<b>The student will have to acquire 9 credits among all the offered training activities and all the courses activated by the University, after evaluation by the tutor. The student can choose the courses not already chosen activated by the master degree.</b>			
Farming in an urban landscape lab		3	AGR/20
Measuring vegetation lab		3	BIO/04
Urban and land planning lab		3	ICAR/20
<b>End of course requirements</b>			
Final exam		12	NA
Internship		3	NA
		Total compulsory credits	15

## COURSE PROGRESSION REQUIREMENTS

There are no prerequisites.