



Laurea Magistrale (MSc) in Sustainable Architecture and Landscape Design

Piacenza Campus

www.polinternational.polimi.it
www.archpolopiacenza.polimi.it

The Master Degree course in Sustainable Architecture and Landscape Design, offered in English and relating to the class of degree LM-4 ARCHITECTURE AND ENGINEERING-ARCHITECTURE, integrates the scientific skills and techniques, characteristic of polytechnical studies in architecture, with those of the design of the landscape and agricultural sciences.

Oriented towards the training of professionals of high competence in the specific fields of Sustainable Architecture and Landscape Design, the study program aims to offer an educational profile clearly characterized by the ability to address the issues of architectural design, landscape, public spaces and infrastructure.

OBJECTIVES

The study program forms an architect with a high degree of preparation in the environmental sciences and technologies, with skills oriented towards projects for the transformation and sustainable regeneration of the urban fabric and open public spaces. In this sense the proposed educational program LM-4 offers theoretical, methodological and technical-constructional principles oriented to form a figure of an Architect in line with the tradition of European Polytechnic Schools, attentive to the issues of architectural and urban design of the built space, of the open space and infrastructure, with particular sensitivity towards the problems of sustainable architecture (physical, economic and social), landscape and environmental compatibility. The cultural horizon of reference is that of regeneration and environmental restoration, a vast field that allows multiple thematic articulations, requires the integration of numerous competences and foresees an equally diverse range of formative profiles, among which the educational course proposed defines specific and competitive fields of application (that of sustainable architecture and that of landscape design).

KEY-WORDS: PROJECT - SUSTAINABILITY - ARCHITECTURE - LANDSCAPE

ADMISSION REQUIREMENTS

The admission requirements for the Master of Science Degree course in Sustainable Architecture and Landscape Design are:

- The possession of a diploma of the graduating class L-17 (or in the class 4 ex D.M.509/1999), without curricular supplements, or possession of qualification obtained abroad and recognized as valid;
- To be in possession of a Bachelor degree or a three-year university degree (DM 270/04, art. 6);
- The fulfillment of the essential formative activities listed in the table relating to the degree in Science of Architecture L-17, considered mandatory curriculum requirement, in accordance with the Directive 85/384 CEE and related recommendations;
- Having passed the admission tests required for the enrollment in a degree course and/or a five-year degree course, with the explicit finalization directed "to the formation of Architect", as regulated on a national level.

The admission to the Master Degree course LM-4 in Sustainable Architecture and Landscape Design is subject to passing the selection test consisting of a comparative assessment that takes into account the career undertaken (based on the documentation submitted by the applicant at the time of pre-registration) and possibly other significant formative or professional experiences that are properly documented.

For the admission to the Master Degree course LM-4 in Sustainable Architecture and Landscape Design, Politecnico di Milano has established as a prerequisite for enrollment the applicant's proficiency in English language. The required level of knowledge and associated certificates that are accepted by the university are indicated in the 'Guide to the English language', published on the University website at the following link:

<http://www.poliorientami.polimi.it/come-si-accede/ammissione-alle-lauree-magistrali/la-lingua-inglese/>

1st YEAR - Sustainable Architecture and Landscape Design

Course Title	type	sec	cfu	ssd
1st SEMESTER				
Theories Of Architecture, City And Landscape	CM	A	6	ICAR/15
History Of Architecture And Landscape In The Contemporary Age	CM	A	6	ICAR/18
Architectural Design Studio 1				
Sustainable Architecture	IL	A.B	8	ICAR/14
Multi-criteria analysis and project appraisal	IL	A.B	4	ICAR/22
Technical Environmental Systems	IL	A.B	4	ING-IND/10
2st SEMESTER				
Steel, timber and reinforced concrete structures	CM	A	4	ICAR/09
Urban and Environmental Design Studio				
Design of public spaces and infrastructures	IL	A.B	6	ICAR/21
Agronomy and food sciences	IL	A.B	4	AGR/02
Sociology of the environment	IL	A.B	4	SPS/10
Urban and Landscape Regeneration Studio				
Environmental technology	IL	A.B	6	ICAR/12
Landscape as heritage	IL	A.B	4	ICAR/19
General ecology	IL	A.B	4	BIO/07

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CAREER OPPORTUNITIES

The Master of Science Degree course in Sustainable Architecture and Landscape Design is designed in compliance with the European Directive 2013/55 concerning the recognition of professional qualifications and forms a clearly characterized profile with a solid background in theoretical-scientific and methodological-applicative terms on the issues of sustainable architecture and landscape design. The graduate in Sustainable Architecture and Landscape Design corresponds to a professional figure capable of performing management functions at institutions and public or private entities (state administration, local authorities, enterprises) and freelance activity in professional studios and design companies, developing tasks relevant to building construction, management, and transformation of the city and its territory. Graduates in Sustainable Architecture and Landscape Design may participate in the State examination for enrollment in the Professional Register of Architects (for graduates in class LM-4 it is possible to subscribe to Section A, Sector A -Architecture, B - Territorial Planning, C - Landscaping, D - Conservation of architectural and environmental heritage). After sustaining the State examination with a positive result, they may practice as an architect in the Member States of the European Community (EU Official Journal n. 2004/C 322/02 of 29/12/2004).

2st YEAR - Sustainable Architecture and Landscape Design

Course Title	type	sec	cfu	ssd
1st SEMESTER				
Landscape Design studio				
Advanced landscape design	IL	A.B.C	6	ICAR/15
Physical geography and geo-morphology	IL	A.B.C	4	GEO/04
Techniques and Tools for Environmental Design	IL	A.B.C	4	ICAR/12
CI Landscape representation and modelling				
Land surveys and representation methods	CI	A	4	ICAR/17
BIM applications	CI	A	4	ICAR/12
ELECTIVE COURSES (1 course):				
Architecture for the Smart City	CM	A	4	ICAR/14
Food, nutrition and environment	CM	A	4	AGR/13
Topography and Cartography	CM	A	4	ICAR/06
2st SEMESTER				
Architectural Design studio 2				
Advanced architectural design	IL	A.B.C	8	ICAR/14
Landscape aesthetics	IL	A.B.C	4	M-FIL/10
FINAL WORKSHOP (1 course among):				
1- SPECIAL TOPICS IN LANDSCAPE	CM	A	4	ICAR/15
2- SPECIAL TOPICS IN URBAN DESIGN	IL	A	4	ICAR/20
3- SPECIAL TOPICS IN ARCHITECTURE	CM	A	4	ICAR/14
ELECTIVE COURSES (1 course among):				
Italian Territories and Landscape Tradition	CM	A	4	ICAR/18
Architecture and Creativity: Cultural Industries	CM	A	4	L-ART/06
Resilient strategies in risk situations	CM	A	4	ICAR/14

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