

MDU

Master in Urban Design and Architecture

(Edition 2021)

First Trimester

Code	Name	CL	L	U	CA	UDC
AR4021	Theories in Urban Development	3	0	12	3	3.5
AR4022	Spatial Analysis and GIS	3	0	12	3	3.5
AR4027	Urban Design and Architecture Project	3	0	12	3	3.5
		9	0	36	9	10.5

Second Trimester

Code	Name	CL	L	U	CA	UDC
AR4026	Social Participation in Urban Planning and Mapping	3	0	12	3	3.5
OP4046	Quality Development Course	3	0	12	3	0
OP5085	Elective I	3	0	12	3	0
		9	0	36	9	3.5

Third Trimester

Code	Name	CL	L	U	CA	UDC
AR4024	Critical Thinking of the Urban Model	3	0	12	3	3.5
AR4025	Governance for Urban Management	3	0	12	3	3.5
OP5086	Elective II	3	0	12	3	0
		9	0	36	9	7

Fourth Trimester

Code	Name	CL	L	U	CA	UDC
AR4023	Methodologies for Environmental Assessment	3	0	12	3	3.5
OP5087	Elective III	3	0	12	3	0
OP5088	Elective IV	3	0	12	3	0
		9	0	36	9	3.5

Fifth Trimester

Code	Name	CL	L	U	CA	UDC
AR5034	Capstone Project	3	0	12	3	3.5
OP5089	Elective V	3	0	12	3	0
		6	0	24	6	3.5

Academic credits

- CL** The letter "CL" indicates the number of class-hours per week.
- L** The letter "L" indicates the number of laboratory-hours per week.
- U** The letter "U" represents the equivalent time in courses lasting 15 weeks (semester) and 12 weeks (trimester), of weekly work that the student dedicates to the course to meet its objectives. They include the "class hours", as well as the time dedicated to the student's independent work.
- CA** The letters "CA" represents the number of semester credit hour of the course.

UDC Load Units

Program Outcomes

Program justification

The Master in Architecture and Urban Design responds to the need to transform our cities into resilient, healthy, just, and sustainable places. The program proposes to face the urban challenges of climate change, migration, inequality, and accelerated growth through tools and methodologies focused on the design and management of multi-scale projects that will impact the regeneration of ecological systems in built environments.

The above will promote the integration of groups of professionals interested in the possibilities found in urban design and planning, as well as in areas related to social sciences, natural resources and engineering. Consequently, the program seeks to create, maintain, and strengthen the interrelationships between the physical, built environment, and the social, economic and political institutions that create urban areas.

The Master of Architecture and Urban Design is directly related to the Vision 2030 of the Tecnológico de Monterrey, where the Institute has identified global trends that are redefining education. Among them, Open Cities stands out, which is focused on meeting the need to respond to rapid urbanization and the concentration of talent and value in cities. Likewise, the program addresses the recognized challenge of training the next generation of innovative citizens who take advantage of the resources of their communities, improve their environment and raise the quality of life.

In this Vision, among others, there are two differentiating pillars where the program contributes:

- As a driving force in the transformation of cities and communities. Which focuses on understanding how cities and migratory movements have evolved. In addition to recognizing urbanization as one of the fundamental transformations in the history of humanity, as well as the challenges and opportunities that the rapid growth of cities brings with it.
- The person at the center to create a sustainable world. Who seeks to understand the individual as a being interconnected with his environment, who lives in harmony with the world and puts his abilities at the service of others.

Intended audience

The Master of Architecture and Urban Design is mainly aimed at applicants who have architecture, urbanism, sustainability and environment, ecology, and civil engineering disciplinary foundations. It is also planned for sociology, management, economics, political science, engineering, and community administration professionals, when they have developed a minimum two year experience in Program related subjects to focus on an interdisciplinary urban problems study and their interventions.

Program objectives

The Master of Architecture and Urban Design is a program that aims to **train professionals** that:

- Are promoters of cities transformation change based on a critical-purposeful understanding of the environment challenges and opportunities.
- Develop urban scale projects, thus taking advantage of the use of technological, participatory, and creative tools in the formulation of strategies or projects applicable to different scales and contexts.

Graduate competences

The Master of Architecture and Urban Design is based on a gradual competencies construction, in a high academic rigor context, from the aggregation of various knowledge, skills, values, and attitudes based on a more granular course design. After completing their studies, the graduate will be able to:

- Carry out innovative proposals to actively design, plan, and build sustainable cities.
- Use state-of-the-art urban design methodologies and tools.
- Play leadership roles within their organizations.

Applicant profile

Tecnológico de Monterrey seeks to integrate in all its graduate programs a new generation of students who have completed their undergraduate studies and who are distinguished by being: talented enthusiastic people, committed to their environment development and society the well-being; people who have the potential to successfully complete their graduate program and become leaders with an entrepreneurial spirit, human sense, and internationally competitive.

Therefore, for admission, the applicant participates in a comprehensive selection process that considers:

- Admission Test to Postgraduate Studies (PAEP) result.
- Professional-level study grades general average.
- Each School may have additional requirements.

Campus that offer this program

Campus	Number of periods offered	From	Closed for new students
Ciudad de México	Complete	Trimester Sept - Dec 2021	Trimester Sep - Dec 2022
Guadalajara	Complete	Trimester Sept - Dec 2021	Trimester Sep - Dec 2022
Monterrey	Complete	Trimester Sept - Dec 2021	Trimester Sep - Dec 2022

Last update: 08/August/2022

Graduate Requirements

Graduate Requirements

To obtain a specialty degree, a master's degree or Ph. D. degree at Tecnológico de Monterrey, students are required to:

1. Have completely finished the undergraduate cycle prior to passing the first course in the curriculum of the specialty, master program, medical residency, or doctoral program.
2. Have fulfilled, in compliance with existing standards, the academic prerequisites of the corresponding program, through proficiency tests or the corresponding remedial courses.
3. Have obtained a bachelor degree--with the antecedent of high school or its equivalent—that is equivalent to those offered by Tecnológico de Monterrey.
4. Have covered all the courses in the given curriculum, either by passing the courses at Tecnológico de Monterrey or by obtaining revalidation or equivalence agreements—in compliance with the standards-- corresponding to part of the courses taken at other institutions, and passed the remaining courses at Tecnológico de Monterrey. Courses taken at foreign universities with which there are agreements are considered, for the effects of this article, as courses taken at Tecnológico de Monterrey, as long as they do not exceed a set percentage of the curriculum established by each graduate program.
5. In those curricula that so specify, to have prepared a research project or thesis that, having been defended before an academic committee, has been approved by said committee.
6. Have taken at least the equivalent of the second half of the corresponding curriculum at Tecnológico de Monterrey , in the case of students with revalidation or equivalence agreements at this level. Flexibility may be exercised in this standard in graduate programs that, under agreement, may be established jointly with other universities.
7. For doctoral programs, have published (or have proof of acceptance for publication), in an indexed journal, at least one paper on a topic related to the student's research project.