RAMEZ G. CHAGOURY
FACULTY OF
ARCHITECTURE
ARTS & DESIGN

The Degree of Masters in Architecture in Urban Design
The Degree of Masters in Architecture in Sustainable Architecture

Program Description

There is an increasing demand for addressing the built environment we live in and related natural environmental issues at various levels of complexity. These issues often manifest themselves in our daily lives in cities, on streets and at home. Solutions to such issues are addressed at the urban and building scales to respond to contextual, social, economic, cultural and environmental specificities and needs.

Graduates of the M. Arch in Sustainable Architecture will demonstrate:

- Knowledge of the impact of the built environment on the natural environment, with a special focus in the MENA region
- Knowledge of the key concepts and principles of sustainability
- Knowledge of the elements of indoor and outdoor comfort
- Ability to investigate contextual socio-cultural, and environmental constraints
- Ability to perform simulations to predict buildings' behavior with respect to different environmental parameters
- Ability to propose sustainable energy efficient design solutions in response to socio-cultural, and environmental constraints

Graduates of the M. Arch in Urban Design will demonstrate:

- Knowledge of geographic information system and its spatial applications
- Knowledge of the urban planning system and regulations in Lebanon
- Knowledge of urban transportation strategies
- Ability to apply key concepts and principles of urban design
- Ability to explore the relation between the built and the natural environment
- Ability to propose urban interventions through public spaces and other approaches and contribute to urban regeneration

Structure

Following the Bachelor in Architecture program, the department offers the Masters in Architecture program in Urban Design and the Masters in Architecture program in Sustainable Architecture.

The two programs share core courses, which establish a common platform for the graduate students, and a necessary understanding of key aspects, and each has a concentration area. The urban design concentration area addresses contemporary urban issues related to environment, the public realm, urban transportation along with the development and regeneration of critical urban areas. The sustainable architecture concentration area introduces students to simulation training pertaining to architects, case study application along with passive energy design.

Within each concentration area, students can select among several courses, which could help them focus towards their master's thesis.
The paths of both concentration areas end with the master's thesis research. The thesis would allow participants to apply the knowledgebase acquired throughout the program.

Admission Requirements
In addition to the University's admission requirements for graduate students (refer to: http://www.ndu.edu.lb/admissions/graduate/orientation), the candidate must submit a letter of intent (in which the candidate's background, reasons for selecting this program, future utilization of this degree and other expectations are clearly stated), and schedule an interview with the Department Graduate Committee (DGC).

Candidates could be granted course substitution on a case-by-case basis. A full-time student must take a minimum of nine (9) credits per semester.

The program targets fresh graduates, and professionals with undergraduate degrees in Architecture, Landscape Architecture, and Civil Engineering. Graduates and professionals from other degrees will be accepted on a case-by-case basis.

Graduation Requirements
Students seeking the degree of Masters in Architecture (M. Arch.) must meet the University's graduation requirements and complete the 30 credits with a minimum cumulative average of at least 3.0/4.0.

Core Courses **15 cr.**
MAP 610, MAR 620, MAD 636, MAP 624, two ARP5 courses (refer to the Bachelor of Architecture program).

Courses from the concentrations **9 cr.**
MAR 611, MAR 612, MAR 613, MAR 614, MAR 615, MAR 631, MAR 632, MAR 633, MAR 634, MAR 635.

Thesis **6 cr.**
MAR 690.

Elective Courses **9 cr.**

Concentration:
Master in Architecture in Urban Design (9 cr.)
Students following the Master in Architecture in Urban Design must take two courses (6 credits) from this concentration and one course (3 credits) from the other concentration:

MAR 611	GIS and Remote Sensing	**3 cr.**
MAR 612	Overview on Urban Design and Planning	**3 cr.**
MAR 613	Basic environmental Concepts Related to Urban Design and Planning	**3 cr.**
MAR 614	Urban Development and Regeneration	**3 cr.**
MAR 615	Urban Transportation Systems	**3 cr.**
MAR 616	Urban Public Spaces	**3 cr.**
MAR 6--	Choose one course from the other concentrations	**3 cr.**

Master in Architecture in Sustainable Architecture (9 cr.)
Students following the Master in Architecture in Sustainable Architecture must take two courses (6 credits) from this concentration and one course (3 credits) from the other concentration:

MAR 631	Sustainable Architecture	**3 cr.**

MAR	632	Green Architecture for the MENA region	**3 cr.**
MAR	633	Human Comfort and Wellbeing in Passive Architecture	**3 cr.**
MAR	634	Building Simulation and Modeling	**3 cr.**
MAR	635	Case Studies in Passive Energy Design	**3 cr.**
MAR	6--	Choose one course from the other concentrations	**3 cr.**