



MASTER OF SCIENCE URBAN AGRICULTURE AND GREEN CITIES

With the likelihood of cities being denser by 2050, it is becoming essential to take a broader view of sustainable development when it comes to urban planning. In this context, urban agriculture is becoming an essential component of nature in the city and brings numerous solutions to the problems of humankind — overcrowding, shortage of agricultural land, climate change, etc.



SKILLS

01/ Gain the technical skills required to integrate multifunctional and innovative horticultural projects into urban development plans, building standards and project architectural design.

02/ Gain and/or broaden skills to manage multidisciplinary teams, particularly planning, leading, coordinating, working in a team and organizational skills.

03/ Be able to develop a broad vision of the challenges inherent to urban agriculture and horticultural projects in cities at all project stages, both in terms of diagnostics and proposal development, by demonstrating analytical and concise thinking.

CONTEXT

The MSc in Urban Agriculture and Green Cities aims to train future managers in urban agricultural and horticultural jobs according to an innovative and broad-based approach to planning, development and sustainability.

The course has been designed to equip future graduates with the necessary tools and hybrid skills to develop in the public and private professional fields responsible for designing, implementing and monitoring innovative and multifunctional agricultural and horticultural projects in cities.

Today, the capability a city has to implement biodiversity and plant restoration strategies raises many questions, mainly linked to how to bring together a project architecture based on the following five main principles, within an overall strategy:

- Local, organic and high-yield food production
- Production and optimized use of renewable energies
- Rain and gray water reclamation and reuse
- Waste recycling
- Energy-plus building construction

The purpose of introducing the Master of Science in Urban Agriculture and Green Cities is to design, implement and follow up projects based on agriculture and horticulture in cities, combining agronomic, architectural, environmental, energy, economic and social concerns.

COURSE STRUCTURE

The MSc is taught in French and English and lasts 18 months. The course is based on 13 teaching units (TUs) running from October to June.

KNOWLEDGE ACQUISITION

"Agronomy, Biology" students

- Urban planning
- Public areas: mobility/ infrastructure
- Urban design

"Architecture, Planning" students

- Water cycle
- Knowledge of plants
- Soils and substrates

URBAN AGRICULTURE

- Principles & Concepts
- Cultivation techniques for the city
- Urban and edible horticulture

URBAN ECOLOGY

- Concepts & Principles
- Biodiversity & urban resilience
- Biodiversity & Architecture

URBAN FOOD SYSTEMS

- Food safety for the city
- Distribution channels
- Standards and health safety

URBAN PLANNING & ARCHITECTURE

- Principles & Concepts of urban planning
- Environmental and landscape dynamics
- Urban forms and heritage

SMART CITIES & INNOVATIONS

- Technologies for Smart Cities
- Circular Economy
- Eco-districts/Green building

LAND & TESTING

- Materials & Construction
- Approaches to energy
- Water supply systems

URBAN SOCIOLOGY

- Participative planning
- Urban social development

REGULATIONS

- Urban planning law
- Environmental law

PRODUCTION & VALUE CHAIN

- Value chain analysis
- Production & Quality

INNOVATION MANAGEMENT

- Approaches & Strategies
- Project Management & Organization

CARTOGRAPHY

- Data analysis
- Concepts and techniques

SELF- AND GROUP AWARENESS

- Team building
- Participative management
- Languages



CAREERS

- Project manager in urban agriculture and plant innovation
- Design project manager in ecological planning
- Consultant in sustainable development
- Project manager in local authority, planning or environmental department or development agency
- Research engineer/project manager in eco-innovation and regeneration of urban areas
- Consultant in ecological planning



INTERNSHIPS AND ASSIGNMENTS

- Six-month internship in a company or research center
- Five-week company assignment, supervised by professionals



CREDITS

90 ECTS credits, broken down as follows:

- 27 ECTS for the first semester (September to December)
- 27 for the second semester (January to June)
- 6 for an assignment in a company or research institute
- 15 for the internship in a company or research institute
- 15 for the professional thesis

Experience life in Rouen, a city with over 37,000 students and a buzzing and vibrant student life.



Nearby: halls of residence and private rentals, university restaurant, sports facilities, public transport network, etc.



BY TRAIN

Arrival at Rouen-Rive-Droite railway station
Bus stop opposite the station,
no. F2 to "Mont-Saint-Aignan"

BY BUS


TEOR no. T1: "Mont aux Malades" stop
Bus no. F2: "UniLaSalle" stop
Bus no. 43: "UniLaSalle" stop


BY CAR


GPS coordinates:
latitude: 49.468098
longitude: 1.072485



Contacts

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 **Program Coordinator**
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www.unilasalle.fr



ADMISSION

Future students can come from very different backgrounds, for instance agronomy, landscaping, architecture, urban planning, geography and biology.

Entry requirements:

- Master's degree (or equivalent)
- Bachelor's degree (or equivalent)

Future students can be young graduates or working professionals.

Selection shall be based on the application and an interview.

Download the application form from www.unilasalle.fr

Return by:

- April 28, 2017
- June 30, 2017



REGISTRATION FEES

Tuition fees for 18 months: EUR 8,100



START OF TERM

October 2, 2017

OPEN DAYS



ROUEN CAMPUS

Saturday, January 21, 2017

Saturday, March 11, 2017



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Master of Science
Urban Agriculture and Green Cities

