Master Metropolitan Analysis, Design and Engineering
Wageningen University & Research | Delft University of Technology

In a fast urbanising world, cities and metropolitan regions increasingly face challenges of sustainability and quality of life. These challenges put at risk issues of mobility and logistics, water and waste management, energy and food security, health and wellbeing. We provide innovative education and deliver excellent, interdisciplinary engineers with the theoretical grounding and practical skills to deal with the complex challenges of cities.

Facing Metropolitan Complexity
As a student, you make use of new technologies, enabling a much faster and accurate use of data on cities at larger scales than ever before. Analysis and interpretation of these contribute to a better understanding and to informed and grounded implementation of interdisciplinary metropolitan solutions. Research and learning activities in the MSc Metropolitan Analysis, Design and Engineering (MADE) programme connect abstract theories and people’s everyday lives in metropolitan areas, using the latter as living laboratories to implement and test socio-spatial-technical innovations.

Joint Master Degree
The MSc MADE is offered as a joint degree, full master programme in Amsterdam by Wageningen University & Research and Delft University of Technology. It links to collaborate research activities, which are consolidated in their participation together with the Massachusetts Institute of Technology (MIT) in the Amsterdam Institute for Advanced Metropolitan Solutions (AMS). As such, you study in the most suited academic context to become an analytical design engineer, acting transdisciplinary.

The MSc MADE Graduate
You will be an expert on one hand and an integrator on the other, able to create synergy between specialists from other disciplinary backgrounds. The core of your MADE programme relates to the flows of the city (mobility, water, energy, food, waste) by means of the established AMS approach of sensing the city (analysis), creating solutions (design), and integrating technology (engineering). You will be an innovator aiming for a circular city, safeguarding the vital city and improving the connected city.
**MADE study programme**

The two-year MSc MADE is entrepreneurial and operates in the territorial context of Amsterdam. Three integrative courses of the academic core in the first year prepare you for working in a living lab way. They provide a platform where you get the opportunity to interact with a broad range of relevant actors. You respectively explore metropolitan challenges, simulate co-creation methods, position yourself in the complex actor networks and test experimental hypotheses in real-life cases in collaboration with a client. Supporting courses educate you in data and in entrepreneurship, and in addition, self-designed elective tracks in Wageningen or/and Delft facilitate specialisation.

**Amsterdam Living Lab**

Graduation projects are carried out in the second year. You combine acquired skills in order to construct your own living lab case in Amsterdam. You do so within a research team, or with one of the private and public partners in metropolitan region, or as a more individual entrepreneurial project. The thesis course supports advanced theoretical understanding of metropolitan complexities, and of related methods, needed to substantiate innovative socio-technical solutions.

The two-year MSc MADE programme is a thorough training in academic skills and project work, connected to the inter- and transdisciplinary research portfolio of the two partner universities, the AMS Institute, and industrial and societal partners.

**For application**

For online application, pre-registration and additional info on the MSc MADE programme:

www.wur.eu/mma

**Contact**

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