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 aim to provide innovative education and deliver excellent, interdisciplinary engineers with the theoretical grounding and practical skills to deal with the complex challenges of cities. To face metropolitan complexity, as a student, you will make use of new technologies, enabling a much faster and accurate use of data on cities and at larger scales than ever before. Analysis and interpretation of these contributes to a better understanding and to an informed and grounded implementation of interdisciplinary metropolitan solutions. Your research and learning activities in the MSc Metropolitan Analysis, Design and Engineering (MADE) programme will interlink abstract theories and people’s real lives in metropolitan areas, using the latter as your living laboratory to implement and test socio-spatial-technical innovations.

The MSc MADE will be offered as a joint degree programme in Amsterdam by Wageningen University & Research and Delft University of Technology. As full master programme is built on their joint research activities, and consolidated in their participation together with the Massachusetts Institute of Technology (MIT) in the Amsterdam Institute for Advanced Metropolitan Solutions (AMS). As such, you will study in a most suited academic context to become an analytical design engineer, acting transdisciplinary. As an 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 heart 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 at the domains of the AMS Institute: aiming for a circular city, safeguarding the vital city and improving the connected city.
MADE study programme

The two-year MSc programme Metropolitan Analysis, Design and Engineering (MSc MADE) is student-centred, entrepreneurial and operates in the territorial context of Amsterdam. Here, it trains students to be able to identify and analyse contemporary metropolitan problems (challenges) and it learns to create innovative and sustainable solutions by making use of inter- and transdisciplinary socio-technical research, design and engineering approaches. It combines system thinking with reasoning from the level of actors creating new ideas, devices, and methods in order to influence the fabric of the metropolis.

This is reflected in the first year, consisting of three core and supporting courses in which the student acquires the competences to act, plan or by other means design proposals to solve metropolitan problems.

In addition, tailor-made, self-designed tracks in Wageningen or/and Delft facilitate specialisation. Graduation projects are carried out in the second year. The living laboratory of Amsterdam supports cooperation with one of the private or public partners in the Amsterdam metropolitan region, or 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 combination of in-situ and online education, 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

The online master specialisations have a staggered admission procedure. Applicants must submit their complete application at the latest on 1 May 2018 in order to be included in this procedure. Please visit the webpage for all details, complete requirements, deadlines and contact information: www.wur.eu/apply

Contact

ir. Erik Heijmans
erik.heijmans@wur.nl
Educational Programme Director

dr, ir. Maurice Harteveld
m.g.a.d.harteveld@tudelft.nl
Educational Programme Director