

Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners (Examencommissie-BK@tudelft.nl), Mentors and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

Personal information	
Name	Lisa Blok
Student number	4853172

Studio		
Name / Theme	AR3AE100 Architectural Engineering Graduation Studio	
Main mentor	Stephan Verkuijlen	Design tutor
Second mentor	Engbert van der Zaag	Building technology tutor
Third mentor	Mo Smit	Research tutor
Argumentation of choice of the studio	The choice for the studio of Architectural Engineering was made because I was interested in the way the studio approached the design strategy as an ongoing process of developments and research. I believe this approach will lead to a well-substantiated design and can also provide guidance during the design process. Moreover the studio's focus on seeking inspiring and innovative solutions for current or future environmental and societal challenges was very appealing to me. In my opinion this offers the opportunity to explore your own interests and it allows you to integrate the technical and creative aspect of designing. Finally, I liked the topics of the graduation studio, specifically renovation for second life, nature inclusiveness and healthy environments.	

Graduation project	
Title of the graduation project	Fostering health and sustainability in post-war neighborhoods through the implementation of ecosystem services
Goal	
Location:	Boerhaavewijk, Haarlem
The posed problem,	Cities, including post-war neighborhoods are centers of consumption and sources of waste and pollutants, leading to environmental degradation and posing long-term risks to human health.
research questions and	How can the urban landscape and its ecosystem services be utilized and optimized to both improve the health

	and sustainability of post-war neighborhoods in the Netherlands and to minimize their damage on the environment?
design assignment in which these result.	The renovation and densification of a post-war neighborhood stamp in which the focus is primarily on promoting human health and reducing the human impact on the environment.
[This should be formulated in such a way that the graduation project can answer these questions. The definition of the problem has to be significant to a clearly defined area of research and design.]	
Process	
Method description	
In order to answer the research question, the paper reviewed existing literature on the relation between the urban ecosystem and human health. Thereafter the most relevant urban ecosystem services were explored, along with their impact on human health and strategies to enhance them. Secondly, the post-war neighborhood and its challenges were described. Subsequently, the case study, Boerhaavewijk was introduced and an assessment of its capacity to supply the relevant urban ecosystem services was made. Finally two scenarios, which included different strategies to improve urban ecosystem services, were explained and tested. The results provided insight into the extent to which certain measures influence urban ecosystem services and can contribute to human health without putting more pressure on other regions.	

Literature and general practical preference

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Reflection

1. My project topic relates to different parts of the studio. The topics of the graduation studio included renovation for second life, nature inclusiveness and healthy environments. All these topics are all reflected in my topic, which is in principal a nature inclusive renovation of a post-war neighborhood to attain a sustainable healthy environment, which lasts.
2. My graduation work will hopefully contribute to filling the gap between the research done on ecosystem services and the environmental impact of humans and the local scale, in this case the post-war neighborhood. Moreover, the project draws attention to how we currently treat the planet. At the moment, human decisions often prioritize short-term advantages over the pursuit of long-term, sustainable well-being and survival.