

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	Adrianna Waleszczak
Student number	5392780

Studio		
Name / Theme	Architectural engineering studio/Second Life	
Main mentor	Anne Snijders	Architecture
Second mentor	Mo Smit	Architecture
Argumentation of choice of the studio	I choose the aE studio to focus on the technology to solve the social and ecological aspects within the architectural project.	

Graduation project	
Title of the graduation project	Maintaining the continuity of social and natural flows
Goal	
Location:	Leeuwarden
The posed problem, research questions and design assignment in which these result.	Decreasing biodiversity, Linear water sanitation system, Disconnection between human and nature How can a building act as a healthy landscape layer and thus contribute to the biodiversity of the city? Dwelling (previously, Office building)
<p>Urban environment is dominated by humans spatially, which breaks the flows of the cycles of supporting services of ecosystem. However, there is a potential of strengthening the ecosystem by making the flows circular and outlining spaces for greenery. The nutrient and water cycles are studied to defines key elements to maintain the ecosystem. My goals are to, through the architectural design;</p> <ul style="list-style-type: none"> - raise the awareness of the residents about the natural processes, - make the strong community in the building - decentralize the urban sanitation system and make the nutrient and water flow circular in the local settlement - make the skin of the building (based on shearing layer diagram) part of the landscape 	

Literature for Technical aspects (presented in the research paper) with focus on:
CLOSING THE LOOP Ecological sanitation for food security by Esrey, S., Andersson, I., Hillers A., Sawyer R

The precedents for the design:

"Arbeiten & Wohnen" a model housing project in Freiburg im Breisgau (using decentralized water system)

"Östarkade" an office building of KfW Bankengruppe in Frankfurt am Main (using decentralized water system)

"Nine dwellings Oosterwold" in Almere, Bureau SLA (understanding the design for co-living dwellings)

"Schoonship" in Amsterdam – Space&Matter (study the process of design with the influence of residents from the beginning)

"Three Generation House" BETA – maintaining the community on a family level and how this is implemented in the building design

"Circular Buiksloterham" district Amsterdam dealing with water

"Tiny houses designs" (how they deal with waste output and the social and private space perception)

"Allotment gardens" in Poland – how the communities are built around gardening activity

Reflection

1. What is the relation between your graduation (project) topic, the studio topic (if applicable), your master track (A,U,BT,LA,MBE), and your master programme (MSc AUBS)?

My architectural project is trying to answer the question of how to close the nutrient and water cycle on the building scale. The solution requires a different design of spatial arrangement, programme, services and skin layer of the building. I am focusing on the technical aspects of the architecture, which is also connected, to the socio-cultural aspect - nature and human connection - which is part of aE studio approach.

2. What is the relevance of your graduation work in the larger social, professional and scientific framework.

The graduation work will contribute to the discussion on the sanitation system in the building and challenge the idea of traditional perception of human involvement in water and nutrient distribution in architectural designs.