EPFL

ENV-462 Urban Green & Blue Infrastructure and Global Warming

Assessment during the semester:

- Individual in-class test (40%)

- Group project (60%)

  Case study on campus

  - *individual sub-project (20%)*

  - *group project (40%)*

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Individual Test (40%)

Friday, 9 May 2025, from 09.15 to 10.00 in class

- Written exam or multiple choice exam

- 10 "simple" questions

- Concepts and principles for UGBI planning and design

- Based on the course presentations and readings (not the exercises)

- The exam's key elements of the course and the readings will be indicated
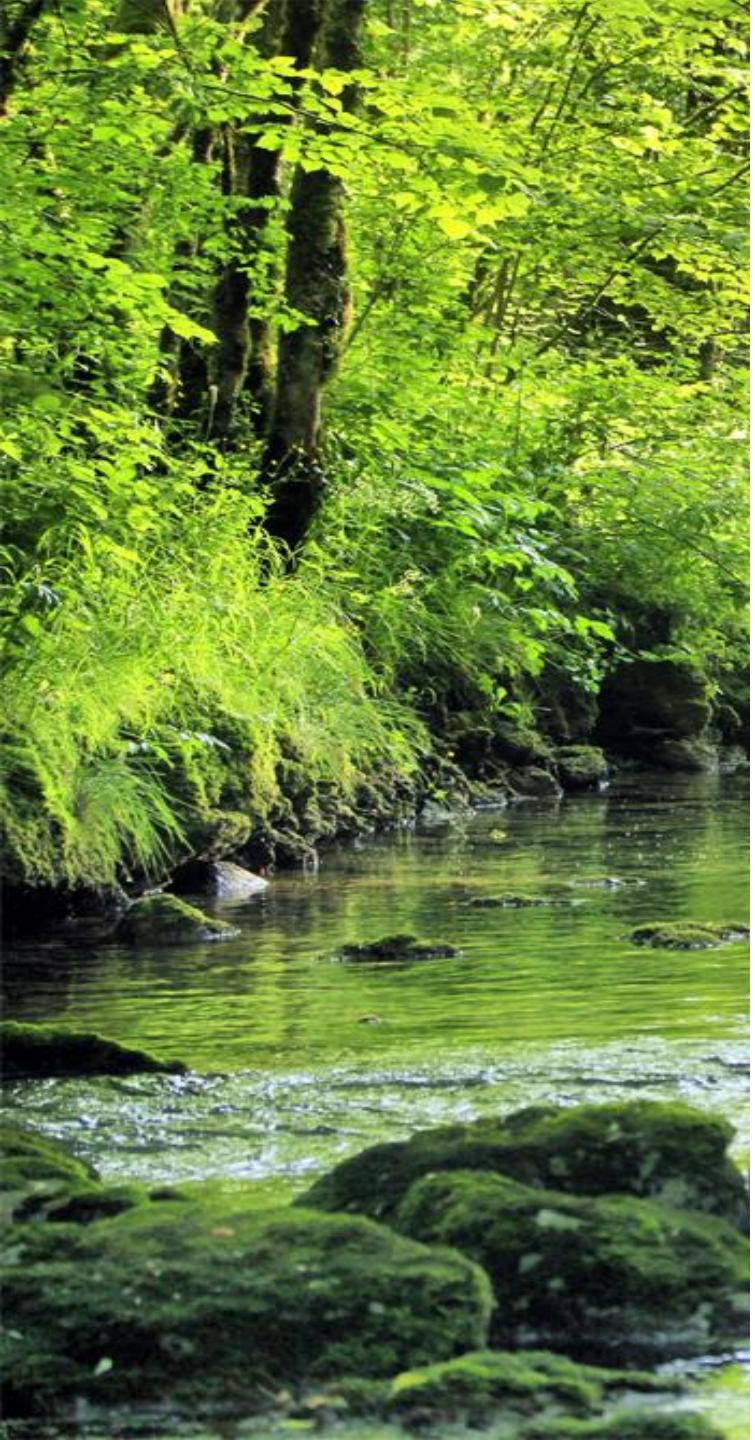
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Course Structure & Group Project

8 "green & blue" layers (exercises)

WATER	07.03.2025 Urban Rainwater Management 14.03.2025 Grey to Green Strategy
UHI	21.03.2025 Urban Heat Island 28.03.2025 Urban Heat Mitigation
BIODIVERSITY	04.04.2025 Tree in the City 11.04.2025 Urban Ecology & Biodiversity
HEALTH	02.05.2025 Health & Well-Being 09.05.2025 Healthy & Biophilic Design

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Groupe Project (60%)

Simplified Case Study

- 4 Groups of 7 to 8 people

- Step-by-step "grey to green" strategy through the exercises

- Each group member is responsible for 1 "green & blue" layer (personal sub-project)

- Groupe work for all UGBI layers
  → bring all "green & blue" layers together
  → create a coherent and optimized new "grey to green" project
  → discuss Strengths/Weaknesses/Opportunities/Limits of your project

- Output: poster presentation

- Deadline: group presentation on May 30, 2025

Personal Project (20%)

Sub-project (as part of the group project)

• Step-by-step "grey to green" strategy through the exercises

• 8 exercises during the course = 8 "green & blue" layers

• Each group member is responsible/expert for 1 "green & blue" layer

• Personal work per UGBI layer

→ assess and analyse UGBI data

→ pre-design a "grey to green" strategy for your project

→ discuss Strengths/Weaknesses/Opportunities/Limits of your strategy

• Output: a short report (given format)

• Deadline: 2 weeks after each exercise!

Working Groups Instructions

Step 1 - Set up your group (28.02.25)

Students can organise and set up their working group according to the following rules/advice:

- groups should have between 6 and 7 students.

- diversity in the group is key!

Step 2 – Choose your personal sub-project (07.03.25)

Within a group, each student chooses a personal sub-project based on the course program.

Step 3 - Register your group (07.03.25)

Go to Moodle ENV-462 (https://moodle.epfl.ch/course/view.php?id=18354 -)