

## Course Program and List of Speakers (as of 21.02.25)

	<b>Lecture</b> <b>09h15-10h00</b>	<b>Lecture - Exercise</b> <b>10h15-11h00</b>	<b>Exercise</b> <b>11h15-12h00</b>
<b>Course Introduction</b> Friday 21.02.2025	<b>Yves Kazemi</b> Course aim, objectives and organisation	<b>Yves Kazemi</b> Introduction to urban green & blue infrastructure	<b>Yves Kazemi</b> Course assessment, midterm exam and group project
<b>Concept and Definition of UGBI</b> Friday 28.02.2025	<b>Yves Kazemi</b> Strategic assessment and planning of urban green & blue infrastructure	<b>Yves Kazemi</b> Design, implementation and evaluation of urban green & blue infrastructure	<b>Stefan Joost</b> Introduction to GIS-based green & blue infrastructure assessment and planning
<b>Urban Rainwater Management</b> Friday 07.03.2025	<b>Lucas Rossi</b> "Sponge City": water management tool adapted to urban climate change	<b>Guided tour on campus</b> Strategy and concept of the EPFL rainwater management strategy (sponge campus)	<b>Lucas Rossi</b> Dimensioning and calculation of watershed, peak flow and surface water runoff
<b>"Grey 2 Green" Strategy</b> Friday 14.03.2025	<b>Yves Kazemi</b> Nature-based tools and techniques to reduce urban surface-water runoff	<b>Nicolas Bolli <sup>(1)</sup></b> Tools and techniques to plan and design nature-based rainwater management infrastructure	<b>Nicolas Bolli <sup>(1)</sup></b> Planning and design of nature-based rainwater management infrastructure
<b>Urban Heat Island</b> Friday 21.03.2025	<b>Yves Kazemi</b> Definition, characteristics and effects of the urban heat island	<b>Yves Kazemi</b> Canopy plan and tree planting strategy to mitigate UHI	<b>Yves Kazemi</b> Strategic assessment and planning of urban canopy plans
<b>Urban Heat Mitigation</b> Friday 28.03.2025	<b>Lionel Tudisco <sup>(1)</sup></b> Urban green & blue infrastructure significance to urban climate and urban heat island mitigation	<b>Guided tour on campus <sup>(1)</sup></b> Heating/Cooling grey vs green and blue infrastructures	<b>Lionel Tudisco <sup>(1)</sup></b> Planning and design of urban green & blue infrastructure to mitigate urban heat island
<b>Tree in the City</b> Friday 04.04.2025	<b>Michaël Rosselet <sup>(1)</sup></b> Assessment, planning and management of urban trees in Lausanne	<b>Guided tour on campus <sup>(1)</sup></b> Best and less best practices regarding tree planting, management and care	<b>Michaël Rosselet <sup>(1)</sup></b> Planning and design of tree plantations in a densely urbanised environment
<b>Urban Ecology &amp; Biodiversity</b> Friday 11.04.2025	<b>Jérôme Pellet</b> Concept and principle of urban ecology and biological diversity	<b>Guided tour on campus</b> Opportunities and limits to strengthen urban biological connectivity and diversity	<b>Jérôme Pellet</b> Planning and design of urban green & blue ecological network
<b>Health &amp; Well-Being</b> Friday 02.05.2025	<b>Nicolas Senn <sup>(1) &amp; (2) ?</sup></b> The role of nature in improving health and well-being of the urban population	<b>Stephan Joost</b> Presentation of the "Green Infrastructure and Mental Health Project"	<b>Stefan Joost</b> Distribution of green & blue infrastructure and social health in urban areas
<b>Healthy &amp; Biophilic Design</b> Friday 09.05.2025	<b>Mid-term individual test</b> In-class	<b>Bill Browning (video)</b> 14 Patterns of Biophilic Design: Improving Health & Well-Being in the Built Environment	<b>Yves Kazemi</b> Planning and design of biophilic green & blue urban environment
<b>Green &amp; Resilient City</b> Friday 16.05.2025	<b>Yves Kazemi</b> Integration of green & blue infrastructures in urban regulation and planning tools	<b>Stefano Boeri Architetti (video)</b> The Milan Vertical Forest: issues and challenges of vertical greening strategy	<b>Optional <sup>(3)</sup></b> Issues and challenges of green roofs, green walls and green buildings
<b>Green &amp; Resilient Society</b> Friday 23.05.2025	<b>Yves Kazemi</b> Issues and challenges of urban green equity and urban green gentrification	<b>Yves Kazemi</b> Cross-sectoral approaches and public participation in UGBI planning and project	<b>Optional <sup>(3)</sup></b> Performance monitoring and costs/benefits evaluation of UGBI
<b>Final Assessment</b> Friday 30.05.2025	<b>Group presentation</b> <ul style="list-style-type: none"> <li>Poster presentation of 15 minutes (everybody speaks) + 10 minutes for questions and discussion</li> <li>Schedule will be defined later</li> </ul>		

## Speakers

- **Jérôme Pellet, Dr.**  
Biologist and Wildlife ecologist, Director, Bureau n+p, Lausanne
- **Lionel Tudisco,**  
Geographer/Urbanist, Urban Planning and Mobility Department, City of Sion
- **Lucas Rossi, Dr.**  
President, Association suisse des professionnels de la protection des eaux (VSA), Comité romand, Lausanne
- **Michaël Rosselet**  
Arborist, Tree delegate, Service des parcs et domaines (SPADOM), City of Lausanne
- **Nicolas Bolli**  
Rural engineer, Chairman, Bureau Triform SA, Lausanne
- **Nicolas Senn, Prof.**  
Head of the Department of Family Medicine, Centre Hospitalier Universitaire de Lausanne (CHUV)
- **Stefan Joost, Dr.**  
Geographer, Senior Scientist, Section of Environmental Sciences and Engineering (SIE-EPFL), Lausanne

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