

Course Program and List of Speakers (as of 21.02.25)

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

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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