



UPM International Summer School

Sustainable Development Driving Systems-Change through Leadership and Innovation

Integrating Strategic Frameworks and Technical Knowledge



Dates: June 24-28, 2019

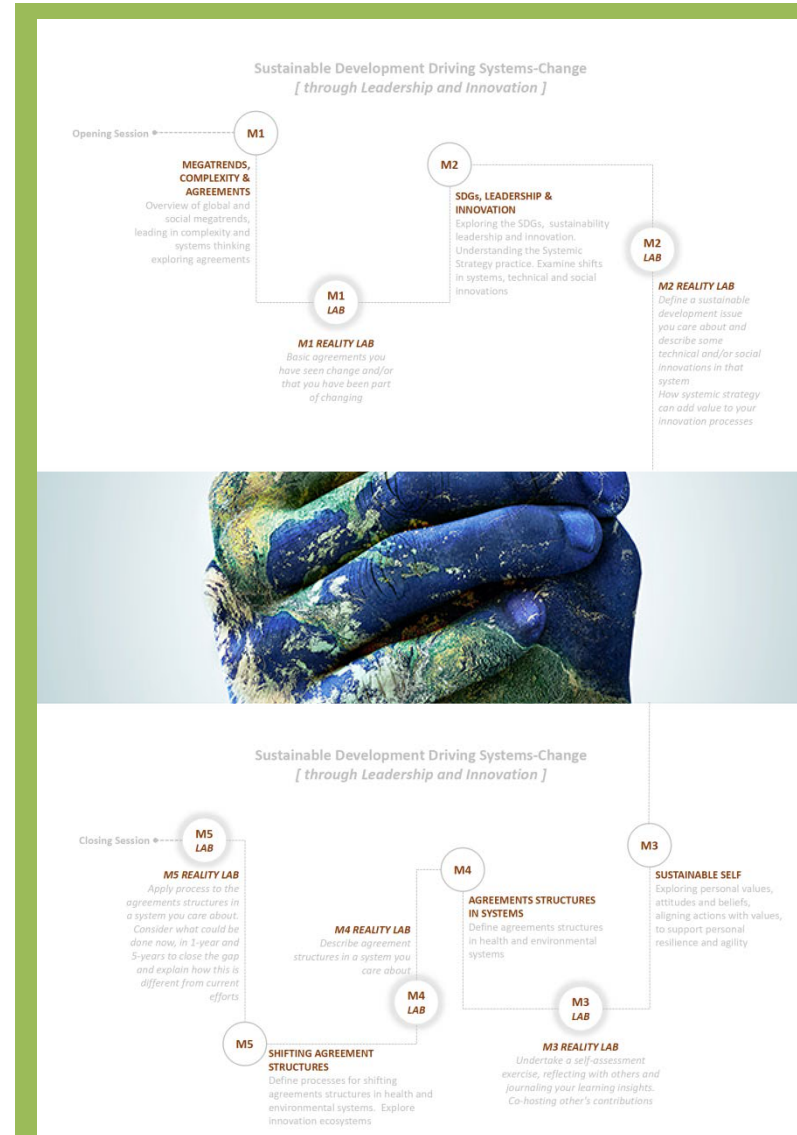
Instructors: James L. Ritchie-Dunham PhD, Wendy M. Purcell PhD FRSA, John D. Spengler PhD, Ana Cláudia Gonçalves MA, Carlos Mataix PhD

Summary: In this interactive course, you will combine your technical knowledge with strategic frameworks to explore how complex systems can be shifted. We will examine strategic frameworks, using in-depth case studies from across Europe, Africa, and the Americas, where the faculty have used these frameworks in support of transformational change. You will then have the opportunity to apply the frameworks to your own projects.

Students: Bachelor or Master

Pre-requisites: None

ECTS: 2 (20 in class hours) = 1 CH





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Syllabus

MODULE 1: Megatrends, Complexity & Agreements

Overview of global and social megatrends, leading in complexity and systems thinking exploring agreements that change. *Exercise:* Basic agreements you have seen change and/or that you have been part of changing. Case studies.

MODULE 2: Sustainable Development Goals (SDGs), Leadership & Innovation

Exploring the SDGs, their interdependence and hyper-connectedness. Examine sustainability leadership and innovation. Understanding the Systemic Strategy practice. Examine shifts in systems, technical and social innovations. Case studies. *Exercise:* Define a sustainable development issue you care about and describe some technical and/or social innovations in that system. How systemic strategy can add value to your innovation processes.

(continued over)





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Syllabus (continued)

MODULE 3: Sustainable Self

For a system to change, individuals need to change. Personal values, attitudes and beliefs will be explored, aligning actions with values, to support the personal resilience and agility necessary to be a successful change agent. How to develop co-hosting capacities.

Exercise: Undertake a self-assessment exercise, reflecting with others and journaling your learning insights. Co-hosting other's contributions.

MODULE 4: Agreements Structures in Systems

Define agreements structures in health and environmental systems.

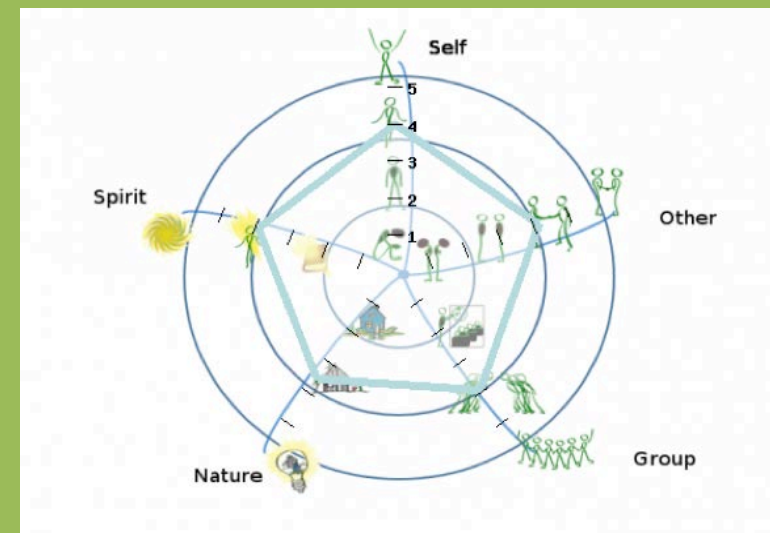
Case studies.

Exercise: Describe agreement structures in a system you care about.

MODULE 5: Shifting Agreement Structures

Define processes for shifting agreements structures in health and environmental systems. Explore innovation ecosystems. Case studies.

Exercise: Apply process to the agreements structures in a system you care about. Consider what could be done now, in 1-year and 5-years to close the gap and explain how this is different from current efforts.

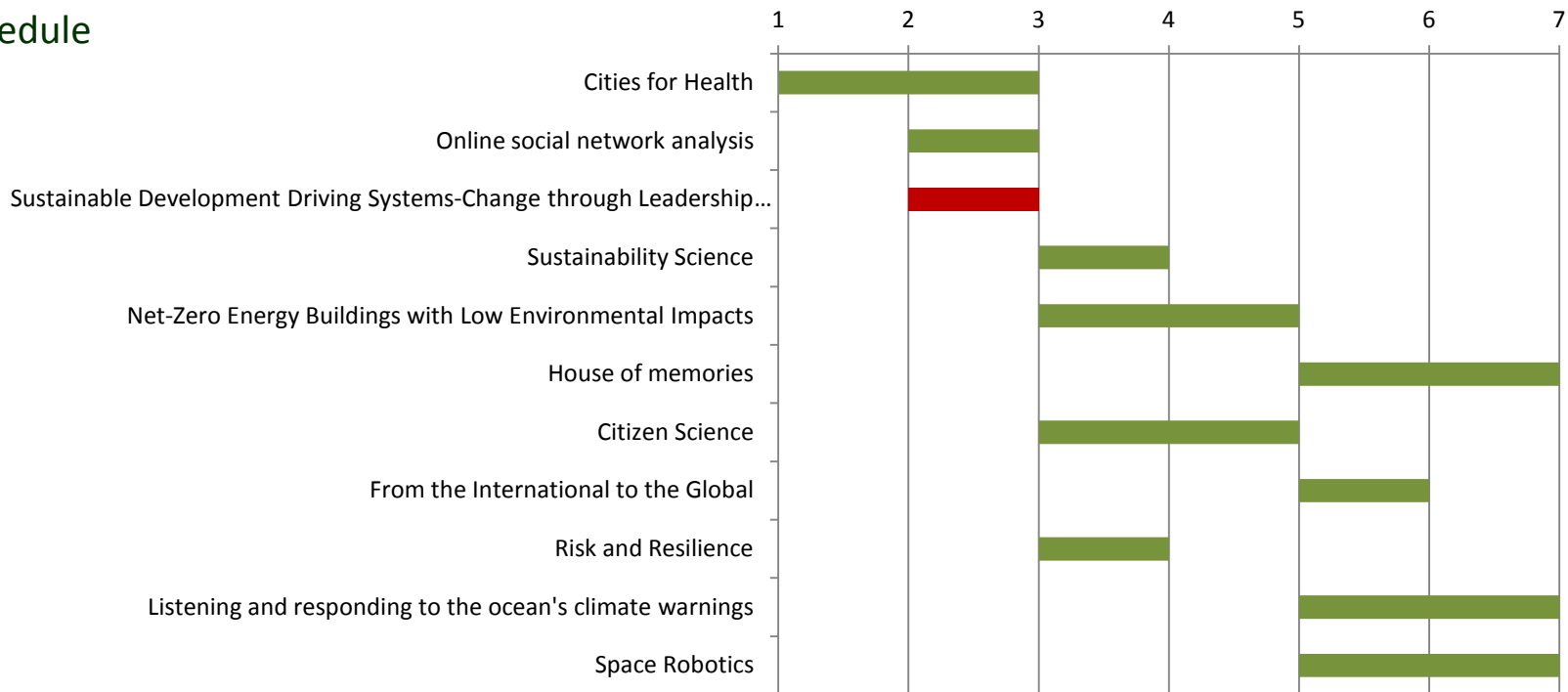




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Schedule



Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	Megatrends, Complexity & Agreements	Sustainable Development Goals (SDGs), Leadership & Innovation	Sustainable Self	Agreements Structures in Systems	Shifting Agreements Structures in Systems



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Leading in Complexity: Driving Systems-Change for Sustainable Development as Change Agents

Integrating Strategic Frameworks and Technical Knowledge



Dr. Ritchie-Dunham leads global practice for Vibrancy in 39 countries and global research for the Institute for Strategic Clarity and the Global Initiative to Map Ecosynomic Deviance and Impact Resilience (MEDIR).



Ana Cláudia Gonçalves is a social impact investor with 25 years of senior leaderships in the service sector in 10 countries, with profound knowledge of strategy, transformation and coaching



Dr. Purcell leads the AUBG-BSDA Sustainability Leadership and Innovation program as visiting scientist with HSPH Harvard University. She is President Emerita of a UK university and adviser to various governments and international agencies and business. Dr. Purcell is a transformational leader able to deliver excellence in mission-driven organizations. She has extensive executive and non-executive experience as a change agents and undertakes research in sustainability leadership.



Dr. Mataix is Professor in UPM's Department of Organizational Engineering, Business Administration and Statistics, and directs the Centro de Innovación en Tecnología para el Desarrollo Humano – itdUPM.



Dr. Spengler is the Akira Yamaguchi Professor of Environmental Health and Human Habitation at Harvard T.H. Chan School of Public Health. He has researched controversial topics of personal monitoring, the health effects of air and other environmental pollution, indoor air pollution, and other environmental sustainability issues.