

Summer School
Hamburg-Copenhagen Urban Challenge 2017
Sustainable Urbanisation addressing Global Challenges

Language	English
Exam ECTS	5 CP/7.5**
Type	Elective
Level	Full Degree Master
Core course period	August 2017
Exam	Summer-semester 2017
Max. participants	15 HCU Students 15 DTU Students 15 CBS Students

Course coordinators/teachers

Dr. Luise Noring, Assistant Professor, Department of Intercultural Communication and Management, CBS

Prof. Carsten Rode, Department of Civil Engineering, Building, DTU

Prof. Dr. Jörg Knieling, Department of Urban Planning and Regional Development, HCU

Main academic disciplines

Sustainable urbanisation
Complexity, localisation and globalisation
Climate mitigation and adaptation in cities
Business and political ethics
Urban planning, design and governance
Non-profit organisations
Business innovation and entrepreneurship

*** The course is offered as an elective at HCU for 5CP. The course is offered at CBS for 7.5 CP with an additional assignment. DTU students can participate in the course for 5CP and are not eligible for the travel grant.*

** All students are eligible for a traveling grant of 275 euro*

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Note: HCU students can only apply for the Hamburg- Copenhagen Urban Challenge.

The Hamburg-Copenhagen Urban Challenge is offered simultaneously by Copenhagen Business School, Technical University of Denmark, and HafenCity University in Hamburg. Students from all three universities are taught together spending one-and-a-half week in Copenhagen and one-and-a-half week in Hamburg. We offer student grants of 275 EURO to all students attending the course. Course contents are innovative, practice-oriented and trans-disciplinary. Student performance will be assessed according to learning objective specific to their home institutions. The core assignment during the three weeks will be an interdisciplinary group work and an individual paper based on the group results.

Course Context

The vision of the Hamburg-Copenhagen Urban Challenge is to create a trans-disciplinary, cross-institutional, and cross-cultural learning experience for students, researchers, and practitioners that build capacity to identify and solve complex urban issues sustainably and collaboratively across sectors.

Cities are considered to be the melting pots of modern society - the proximity and density of people and organisations tend to foster innovation, creativity, and entrepreneurship. One of the biggest challenges in the 21st century is to plan urbanised areas and to design public policies in such a manner that they facilitate thriving businesses, organisations and people, while addressing global environmental and social challenges. At the same time numerous companies cater to the growing demands of urban citizens and local city governments in everything from fast moving consumer goods to housing, infrastructure and energy. The challenge is to balance the many public and private expectations on urban space, - without losing sight of urban sustainability. Thus, the Hamburg-Copenhagen Urban Challenge takes a citywide and regional development perspective on public, private, and nonprofit sector actions that shape solutions to the most pressing issues of today's societies.

Course Description

Students will conduct a comparative analysis of HafenCity in Hamburg and Nordhavnen in Copenhagen contextualizing both districts within the larger development patterns of the metro-regions of Hamburg and Copenhagen. A focus will be on finding a sustainable balance of regional, citywide and district needs regarding specific urban challenges. Assessing the role of the districts within the larger context will enable students to identify drivers within private, public, and non-profit activities that could enhance the districts and cities ability to address these challenges in a sustainable manner. Based on their initial analysis, students will identify sustainable public, private and non-profit sector solutions to the identified urban challenges. The solutions may include for instance public policy changes, introduction of new standards, new business opportunities, infrastructure projects or non-profit advocacy campaigns.

Examples of urban challenges and real-life cases the students will be presented with include:

- Identifying ways in which Nordhavn and HafenCity meet and do not meet the social sustainability demands of a modern metro, including the social composition of the citizens living in the neighbourhoods and understanding their ability to integrate into the social fabric of the neighbourhood.
- Determining in which ways Nordhavn and HafenCity meet environmental sustainability measures, including measures put in place to address climate adaptation and migration in the face of storm water, waste management, green building standards, energy efficiency, etc.
- Strengthening public transport connectivity, so that citizens can access jobs and other opportunities easily and cheaply.

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- Find ways to tackle freight transportation in densely populated areas, so that freight does not add needlessly to congestion and pollution.
- Explore how specific sustainability tools and methods can address and solve multiple urban problems, such as improve traffic flows and handle storm water or provide green spaces and migrate rain water or ensure access without increasing traffic congestion, etc.
- Present recommendations of how to include urban nature-based solutions in the urban development in order to diminish pollution, congestion and improve liveability.
- Demonstrate new collaboration models for public, private and civic actors to engage in and leverage on for urban transportation systems that are people-centered and community-driven
- Explore principles from the International Building Exhibition Hamburg-Wilhelmsburg 2013 for the revitalization of neighborhood and sustainable urban development.

The partner company **Rambøll** will share insights and experience as a leading engineering and design consultancy.

Learning goals

The Hamburg-Copenhagen Urban Challenge intends to achieve the following:

- Build a lasting collaboration between students and faculty of Technical University of Denmark, Copenhagen Business School and HafenCity University in Hamburg;
- Develop a foundational unit for trans-disciplinary and cross-country and -city approaches to research, teaching and learning within urban sustainability;
- Stimulate innovation and entrepreneurship skills of higher education researchers, teachers, graduate students and practitioners within urban sustainability;
- Facilitate the exchange, flow and co-creation of knowledge within urban sustainability through mobility and cross-city cooperation between Copenhagen and Hamburg.
- To establish a dialogue and close collaboration with key business stakeholders and thereby strengthen the relationship between universities, cities and local businesses.
- Foster meaningful collaborations between economists, engineers, political scientists, social scientists, life scientists, urban planners, policymakers, developers amongst others/and many others.

Course Structure

The Hamburg-Copenhagen Urban Challenge includes one-and-a-half weeks of exchange in Hamburg followed by one-and-a-half weeks in Copenhagen. Students will work together in mixed study-groups across culture and disciplinary backgrounds. The stays in Copenhagen and Hamburg are structured through lectures, site and company visits, group and field work, and project presentation. Students will be grouped into cross-institutional teams so as to identify and analyze complex urban challenges – teams may choose to focus on a self-selected urban sustainability challenge. During the group work, students will assess and compare the sustainability of both case studies (Nordhavnen and HafenCity) with regards to the specific urban challenge. Based on their analysis, students will also identify public, private and/ or non-profit

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approaches to address the challenge bringing together their unique experiences in different academic disciplines.

Participants are expected to take part in all planned activities, and help make the Hamburg-Copenhagen Urban Challenge a great experience for everyone, - both academically and culturally.

Examination

Student performance will be assessed according to learning objective specific to their home institutions. The core assignment during the three weeks will be the interdisciplinary group work. Groups will be mixed from all universities. The groups will present twice: On the last day in Hamburg and in Copenhagen. HCU and DTU only offer the course as a 5CP class, therefore, the student presentations will be graded. Students from CBS that take the course for 7.5 CP will have to submit an additional exam as specific to the requirements of their home institution.

			CBS	HCU	DTU
7.5 CP	5 CP	Group Assignment	Not graded	Graded presentations	Graded presentations
		Essay		Graded	Graded
	2.5 CP	Individual Exam	Graded	n/a	n/a

Teaching Methods

The Hamburg-Copenhagen Urban Challenge programme is a total of three weeks, with two weeks in each partner city. Up to 15 students from each university (45 in total) will work together throughout the programme in mixed study groups across cultural and disciplinary backgrounds. The stays in Hamburg and Copenhagen are structured through lectures, seminars, site visits, individual study time, group work, and project presentations.

Participants are expected to take part in all planned activities, and help make the summer school a great experience for everyone, both academically and culturally.

Student workload

Lectures	40 hours
Site visits	25 hours
Group Work	60 hours
Preparation	25 hours
[Individual Exam (CBS)]	60 hours]

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Application and Organization

The core seminar will take place during August 2017 in Copenhagen and Hamburg. The dates are:

Hamburg: August 7th – August 15th
Travel Day: August 16th
Copenhagen: August 17th – August 25th

The Urban Challenge is supported by the Erasmus+ Programme of the European Union. Participants are responsible for their own travel arrangements. However, we do provide a student travelling grant of 275 EURO per student. [HCU Specific part for application: The course is open to all master students at HCU, including Urban Planning, Urban Design and REAP. HCU Students can attend the summer school as an elective for 5CP.

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Suggestions for readings

Bridges, W. (1986), Managing Spatial Transition. *Organizational Dynamics* 15(1), 24-33.

Bryson, John M. (Ed.) (2011), Strategic planning for public and nonprofit organizations. A guide to strengthening and sustaining organizational achievement. 4th Edition. San Francisco: Jossey-Bass.

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Bulkeley, H., Betsill, M.M. (2003), *Cities and Climate Change: Urban Sustainability and Global Environmental Governance*. Routledge, London.

Bulkeley, H., Castan Broto, V. (2012), Government by experiment? Global cities and the governing of climate change. *Transactions of the Institute of British Geographers*.

Burch, S., Shaw, A., Dale, A., Robinson, J. (Forthcoming) Triggering transformative change: A development path approach to climate change response in communities. *Climate Policy*.

Frantzeskaki, N., Loorbach, D., Meadowcroft, J. (2012), Governing transitions to sustainability: transition management as a governance approach towards pursuing sustainability. *International Journal of Sustainable Development* 15, 19-36.

Fröhlich, J., Knieling, J. (2013), Conceptualizing Climate Change Governance. In: J.

Hill, Michael J.; Hupe, Peter L. (2009), *Implementing public policy. An introduction to the study of operational governance*. 2nd ed. Los Angeles [Calif.], London: SAGE. Knieling & W. Leal Filho (Eds.), *Climate Change Governance: Series Climate*

Change Management (pp. 14-31). Heidelberg: Springer.

IPCC - The Intergovernmental Panel on Climate Change. (2014). Fifth Assessment

Report. *Climate Change 2014: Mitigation of Climate Change*. Retrieved on March 15, 2015 from <http://www.ipcc.ch/report/ar5/wg3/>

Nevens, F., Frantzeskaki, N., Gorissen, L., Loorbach, D. (2012), Urban Transition Labs: co-creating transformative action for sustainable cities. *Journal of Cleaner Production*.

Rode, Carsten (2012), Global Building Physics, *Journal of Building Physics*, 36(4), pp. 337–352

Wejs, A. (2014), Integrating climate change into governance at the municipal scale: an institutional perspective on practices in Denmark. In *Environ. Plann. C* 32 (6), pp. 1017–1035. DOI: 10.1068/c1215.

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