

Schedule of Lectures

„Sustainable Urban Technologies (SUT)“

winter term 2013/14

for students of the third semester

Overview

Sustainable Urban Technologies				
No. of Module	Title of the Course	Lecturer	Time Schedule	Type of course
8A	Advanced Module - Sustainable Urban Technologies (students choose two of the following courses)			
8A.1	BosWash – Megapolis im Nordosten der USA: Boston, New York, Philadelphia Baltimore, Washington D.C. (de)	Juchelka	<u>Kick-off::</u> 11.NOV.13 (9 - 10 am) <u>Seminar:</u> Mo, 10/FEB/14 (9 am until 5pm) and excursion/field trip from April, 12 until April, 26, 2014	Block
8A.2	Healthy Urban Development - Tools and instruments as guides for health services when commenting on development policies, plans and proposals (en)	Moebus	22/JAN/14; 29/JAN/14, 5/2/14; 26/2/14; 5/3/14; 12/3/14; always: 9:30 am until 10:15 am (Lecture) and 10:30 am until 12:15 pm (Exercise)	Block
8A.3	City development between conservation and conversion: case studies in Edinburgh and Glasgow (en)	Wehling	In January (please contact Prof. Wehling)	Block
8A.4	Evaluation Methods in Urban Planning, Block (en)	Parisa Arjmand	13./14.2.14 (Thu, Fr: 9am-3 pm); 18/19.2.14 (Tu, We: 9am -5 pm); 21.2.14 (9 am -1pm)	Block
8A.5	Introduction to urban Economics – Key concepts, trends and current debates (en)	Hartenstein/ Walloth	6.1. (Mo), 7.1. (Tu), 9.1.(Thu), 10.1.14 (Fr) (10am until 5pm) And 24.1.2014 (Fr) (9am – 1pm; presentation and written examination	Block
8A.6	Sustainability Science & Urban Transition Management (en)	Krumme	20.-21. + 24.-28. March 2014 / 9am – 4pm	Block

de = in German; en = in English

The Modular Construction of the Masters Programme "Sustainable Urban Technologies"

Sem.	WS/SS	Module	CP	CH	Masters Programme "Sustainable Urban Technologies"	
1.	WS	1	15	8	Module 1: Integrative Module I - Introduction to Urban Systems	
			3	2	1.1: Key issues in Urban Systems (lecture)	
			4	2	1.2: Introduction: Sustainable Urban Technologies (lecture/seminar)	
			4	2	1.3: Introduction: Urban Culture, Society and Space (lecture/seminar)	
			4	2	1.4: Introduction: First Steps into Urban Planning (lecture/seminar)	
		2+3	10+5	4+2	Module 2A: Introductory Module - Sustainable Urban Technologies (students have to choose 2 from various courses on offer)	Module 3A: Interdisciplinary Complementary Module - Urban Culture, Society and Space I
2.	SS	4	10	4	Module 4: Integrative Module II - "Healthy City" practically oriented seminar (internal)	
		5+6	15+5	6+2	Module 5A: Intermediate Module - Sustainable Urban Technologies (students have to choose 3 from various courses on offer)	Module 6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II
3.	WS	7	20		Module 7: Internship Project (external, three months)	
		8	10	4	Module 8A: Advanced Module - Sustainable Urban Technologies (students have to choose 2 from various courses on offer)	
4.	SS	9	25		Modul 9: Masters Thesis Oral Examination	
			5			
Σ disciplinary (without MA Thesis/Colloq.)			35	14	Annotations (1) Interdisciplinary Complementary Modules: These will be specially offered courses from the "other" masters programme (2) Introductory Modules, Intermediate Modules, Advanced Modules: There will be several classes on offer (5 CP each), individual specialisation	
Σ Integration			25	12		
Σ Complementary			10	4		
Masters Thesis + Oral Examination			30			
Practical Project/Internship (Module 7)			20			
Σ			120	30		

Important: Please inform Mrs. van Wasen (beate.vanwasen@uni-due.de) and Dr. Hochmuth (elke.hochmuth@uni-due.de) about the courses you have chosen via Email. Mrs. van Wasen is responsible for the registration of all your courses in the central examination office at the University of Duisburg-Essen. All selected courses will be listed on your Masters Degree-certificates or on your Transcript of Records. Dr. Hochmuth is the coordinator of the Masters Programme.

Module	8A: Advanced Module - Sustainable Urban Technologies
Title of the course	8A.1: BosWash – Megapolis im Nordosten der USA: Boston, New York, Philadelphia Baltimore, Washington D.C.
Lecturer	Juchelka
Faculty/ Department	Geography
Type of Course	Block with excursion/field trip
Day of the week Time	Kick-off: 11/11/13 (9 am – 10 am) Seminar: Mo, 10/2/14 (9 am until 5pm) and Excursion from April, 12 until April, 26 2014
Campus Room	Essen, Schützenbahn 11/11/13 in SR 102 10/2/14 in SM 102
Credits	5
Hours/per week (SWS)	2
Language	Deutsch
Description/ Kommentar	Consult Link below
Registration	Please send an Email to rudolf.juchelka@uni-due.de

LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=215397&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

Module	8A: Advanced Module - Sustainable Urban Technologies
Title of the course	8A.2: Healthy Urban Development - Tools and instruments as guides for health services when commenting on development policies, plans and proposals (English)
Lecturer	Moebus
Type of course	Blocks
Day of the week/ Time	22/1/14; 29/1/14, 5/2/14; 26/2/14; 5/3/14; 12/3/14; schedule. 9:30 am - 10:15 am (Lecture) und 10:30 am 12:15 pm (exercise)
Adresse	Colonia Haus, Zweigertstr. 37, 45130 Essen,3. Obergeschoss, Großer Seminarraum (3.05)
Credits	5
SWS	2
Language	English
Description	<p>This course is designed to acquaint students with the principles of health assessment tools and to provide field-level examples of instruments which support an engagement between urban planners, developers and health professionals. During the course a review of tools used by health professionals and urban developers will be carried out by the students. Furthermore, the students will work in small groups in order to develop a pilot study for testing and implementation of such a tool.</p> <p>Upon completion of the course, students</p> <ul style="list-style-type: none"> • will have enhanced knowledge and understanding of <ul style="list-style-type: none"> ○ key principles which promote health and wellbeing in urban systems ○ health effects of the urban development policy, plan or proposal ○ in-depth knowledge about the concept of health indicators ○ indicator analysis ○ tools/instruments for reviewing and commenting on development plans • will Possess practical skills to <ul style="list-style-type: none"> ○ assess the availability of health data on neighborhood and community level ascertain time and cost when using an assessment instrument in geographically restricted regions ○ develop a pilot study for implementing an assessment tool (identification of suitable partners, quartiers, etc.)
Anmeldung	Susanne.moebus@uk-essen.de

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Module	8A: Advanced Module - Sustainable Urban Technologies
Title of the course	8A.3: City development between conservation and conversion: case studies in Edinburgh and Glasgow (English)
Lecturer	Wehling
Faculty/ Department	Block with excursion/field trip
Type of Course	
Day of the week Time	Please consult LSF
Campus Room	In January Please consult LSF
Credits	5
Hours/per week (SWS)	2
Language	Englisch /Deutsch
Registration	Please send an Email to hans-werner.wehling@uni-due.de

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Module	8A: Advanced Module - Sustainable Urban Technologies
Title of the course	8A.4: Evaluation Methods in Urban Planning
Lecturer	Parisa Arjmand
Type of Course	Block
Day of the week Time	13/14.2.14 (Thu,Fr: 9am-3 pm); 18/19.2.14 (Tu, We: 9am -5 pm); 21.2.2014 (9 am -1pm)
Campus Room	Essen SM102
Credits	5
Hours/per week (SWS)	2
Language	English
Description	<p>Urban and regional planners depend heavily upon the interaction between objectives and evaluation methods in their analysis, planning and implementation processes. Evaluation in urban planning is the last crucial step, when the project process develops a gradual refinement from broad issues to narrower range of feasible options. Each cycle builds upon the lessons of previous cycles and this permits alternatives to emerge which should be either rejected or further refined. Thus, in this stage the evaluation of the alternatives in urban planning would lead to the best conditions/solutions for the city problems and the optimal decision could be taken by urban planners.</p> <p>In this course the evolution process and the use of different categories of evaluation methods mostly used in urban planning would be discussed. Some of the methods would be just mentioned to clarify the category they belong to and their general uses, while the others would be technically described. The methods are taught once theoretically and then in the form of practical urban projects examples. Nevertheless, some of methods which would be mentioned during the course are as followed:</p> <p>Checklist of criteria, Goeler Scorecard, Goals Achievement Matrix (GAM), Analytic Hierarchy Process (AHP) and ANP.</p> <p>In conclusion the course provides the students the necessary knowledge they require to implement the urban plans professionally and defend their university/job projects, dissertations and researches scientifically.</p>
Registration	Please send an Email to parisa.arjmand@yahoo.com an

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Module	8A: Advanced Module - Sustainable Urban Technologies
Title of the course	8A.5: Introduction to urban Economics – Key concepts, trends and current debates
Lecturer	Hartenstein/Walloth
Type of Course	Blockveranstaltung
Day of the week Time	6.1. (Mo), 7.1. (Tu), 9.1.(Thu), 10.1.(Fr) (10am until 5pm) And 24.1.2014 (Fr) (9am – 1pm; presentation and written examination)
Campus Room	Essen, Schützenbahn Consult LSF
Credits	5
Hours/per week (SWS)	2
Language	English
Description/ Kommentar	<p>If Tokyo was a country, it would be the 12th largest economy in the world. In 2012 the city produced goods and services worth approximately US\$1,500 billion, roughly the same amount as Australia. In the same year the economic output of the Rhine-Ruhr metropolitan region amounted to US\$465 billion, thereby matching Argentina, the world's 25th largest economy (Brookings Institution, World Bank). Evidently, urban agglomerations have become the economic powerhouses of our times. Behind the impressive numbers of cities' commercial performance lies a remarkable complexity of economic functions and structures, comprising a hugely diverse range of areas such as local labour markets, housing, traffic and public transport, education, crime and the quality of urban life. This block seminar aims to provide an introductory overview of the major lines of discussion within the discipline of Urban Economics, revolving around questions such as: What are the economic functions of a city? Who are the economic actors in the city and how do economic activities influence urban life? How do the private sector, municipality and civil society interact with each other? Which challenges are modern city economies facing in today's globalized world and which possible solutions exist?</p> <p>The array of issues covered during the block seminar embraces the following topics: The significance of cities as economic centers; Agglomerations, clusters and business parks; Local economic development; Formal and informal economies; Corporate urban responsibility; City marketing; Local and bottom-up approaches to urban development; Non-classical approaches to understanding (urban) economies (e.g., evolutionary economics, behavioral economics); The role of urban economies within complex urban systems (spontaneous order, innovation, creative destruction, etc.); City operations and municipal finances.</p>
Registration	christian.walloth@uni-due.de

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Module	8A: Advanced Module - Sustainable Urban Technologies
Title of the course	8A.6: Sustainability Science & Urban Transition Management (English)
Lecturer	Krumme
Type of Course	Blockseminar
Day of the week Time	20.-21. + 24.-28. March 2014 9am – 4pm
Campus Room	Essen R12 R04 B02
Credits	5
Hours/per week (SWS)	2
Language	English
Description/ Kommentar	<p>Motivational Background: With this seminar we want to close gaps between conceptual ideas of sustainable development, trends in the international discussion of green/ alternative urban systems and the actual scientific basis/ the findings of the international research community, particularly from the emerging sustainability science as well as transition research.</p> <p>Learning Goal: <i>We provide a scientifically coherent basis in order to understand, integrate and evaluate current dominant as well as alternative developments in society, economics and technology, particularly for the urban system background and the grand sustainability challenge.</i></p> <p>The seminar will be based on scientific presentations, group works/discussions and the interactive mapping and correlation of results and upcoming questions, in order to provide you with profound knowledge about sustainability science, especially for the urban system background. Based on this knowledge, we will deduce new/ innovative development and planning processes and discuss how enabling factors can be used effectively for the purpose of establishing/developing new ways/examples of urban transition management towards sustainability.</p> <p>In a first step the seminar will thus provide essential insights in the emerging frameworks and findings of sustainability science in a practical and concrete way. Generally the seminar will build its concept upon fundamental principles of and strategies derived from modern ecological science (Ecosystem Services Approach, Ecosystem Approach, as well as Ecological Economics). Doing so, system capacity based (socio-cultural, socio-economic and industrial) developments become more tangible for the background of so called “strong sustainability models”.</p> <p>In a second part the seminar will transfer the lessons learned to sustainable development perspectives of urban systems and give answers how those transitions can be understood, planned and measured. Crucial issues reflected are amongst others:</p> <ul style="list-style-type: none"> • <i>Why are cities critical key players in the field of a global sustainable development?</i> • <i>How can cities be mobilized on the way towards a transformation of our</i>

	<p><i>socioeconomic system, oriented on long term social and ecological capabilities?</i></p> <ul style="list-style-type: none"> • <i>How can we extract use of typical “urban advantages” (industry, knowledge, density, accessibility, social and business networks, technological infrastructures and means etc...) to make cities actually the most sustainable form of human living?</i> <p>In a final phase enabling factors for the desired transitions are identified and discussed, that could effectively trigger alternative pathways for worldwide urban systems, understood against the background of an integrative Quality of Life Approach (QoL). The seminar concentrates therefore beside profound theoretical state of the art literature research on concrete case studies from cities and urban systems all over the globe. In the seminar we therefore favourite a bilateral strategy both on so called hard and soft skills/ leverages, respectively push and pull factors, for sustainable urban transition management: technological (e.g. smart city strategies) as well as socioeconomic (e.g. sharing economies) and socio-cultural aspects (e.g. transition town movement).</p>
Registration	<p>Please send an email for your registration for that course to: doerte.ringel@uni-due.de</p>

Link LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=227476&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>