

## Schedule of Lectures

# „Sustainable Urban Technologies (SUT)“

(Second Semester)

Status: 20.2.2013

summer term 2013

In case there are scheduling overlaps between weekly courses and block seminars, please contact the lecturer responsible for the weekly course. Please inform the lecturer that you would like to attend another course on a few dates. In general, you can then catch up on the contents of the weekly course that you have missed.

**Important: Please inform Mrs. van Wasen ([beate.vanwasen@uni-due.de](mailto:beate.vanwasen@uni-due.de)) and Dr. Hochmuth ([elke.hochmuth@uni-due.de](mailto: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.**

## Overview

<b>Sustainable Urban Technologies</b>				
No. of Module	Title of the Course/(language)	Lecturer	Time schedule	Type of course
<b>4</b>	<b>Integrative Module II – Practically oriented seminar (compulsary)</b>			
	The Generation Project Emscher Conversion – Quality of Life and New Resources - practically oriented seminar	Moebus, Gurr, Schmidt et. al.	Mondays (weekly) Opening week: 8.4.until 12.4. Final Meeting: July, 26	SE
<b>5A</b>	<b>Intermediate Module - Sustainable Urban Technologies (students choose three of the following courses)</b>			
5A.1	Urban Water Management (English)	Niemann	Thursday (12 -15)	Exercise/ SE
5A.2	Socio-economic & technological enablers of urban change (English)	Krumme	Please contact Klaus Krumme	SE/Block
5A.3	Climate change and adaptation strategies within urban areas (English)	Goldbach	Tuesdays (12 -14)	SE
5A.4	Future Urban Energy Systems (English)	Walloth/Schnabel/Schmidt	May, 31 (Friday) June, 7 (Friday) June, 14 or 21 (Friday) July, 19 (Friday)	SE/Block
5A.5	Elektrische Energieversorgungssysteme (German)	Erlich	Wednesday (12 -15)	Lecture
5A.6	Operations Research (German)	Kimms	Wednesday (12 -14)	Lecture
5A.7	Constructive Road Construction: management of the municipal road maintenance (German)	Wundes/Mielke	Thursday (12:30 - 15:45)	Lecture/ Excercise
5A.8	Sustainable Urban Logistics (English)	Aimen/Noche	Wednesday between May, 8 and June, 26 (8:30 – 10) (Duisburg)	Research-Seminar
5A.9	Trink- und Prozesswasseraufbereitung (german)	Gimbel	Thursday (8:45 - 10:15) (Duisburg)	Lecture/ Excercise

No. of Module	Title of the Course/(language)	Lecturer	Time schedule	Type of course
<b>6A</b>	<b>Interdisciplinary Complementary Module – Urban Culture, Society and Space II (students choose one of the following courses)</b>			
6A.1	Grundlagen der strategischen Stadtentwicklungsplanung - sozial, ökonomisch, ökologisch (German/English)	Hassenpflug	2 <sup>nd</sup> May(Thursday) (13 - 18 ) 3 <sup>rd</sup> May (Fr) (9 -13 ) 26 <sup>th</sup> June (We) (15 -18 ) 27 <sup>th</sup> June (Thursday) (9 - 15 ) 11 <sup>th</sup> July(Thursday) (13 - 18 ) 12 <sup>th</sup> July(Fr) (9 -13 )	SE/Blocks
6A.2	Low Carbon Society - Roadmapping for Sustainability Transitions at Local and Regional Level (English)	Schüle, Wuppertal Institut	19 <sup>th</sup> April (Fr) (10- 12 ) 26 <sup>th</sup> April (Fr) (10 - 13 ) 28 <sup>th</sup> June (Fr) (10 - 17 ) 5 <sup>th</sup> July (Fr) (10 - 17 )	SE/Block
6A.3	Cross-cultural Communications and Competence (English)	Michal Tighe, virtual teamwork	1st July (Mo) (10 - 17 ) 2nd .July (Tuesday) (10 - 17 ) 3rd July (Mi) (10 - 17 )	SE/Block

**Participation recommended; No credits**

Nr. des Moduls	Veranstaltungstitel (Sprache)	Dozent/in	Termine	Veranstaltungstyp
	Ringvorlesung der Urbanen Systeme: Stadt 2030 (de)	Gurr, Schmidt (verantw.)	mittwochs (zwischen dem 8.5. und 10.7.2013) (18 bis20)	Vorträge von Externen

Module	Integrative Module II
<b>Title of the course</b>	Modul 4: The Generation Project Emscher Conversion – Quality of Life and New Resources - practically oriented seminar (compulsory)
<b>Lecturer</b>	Moebus / Gurr/ Schmidt et al.
<b>Faculty/ Department</b>	Main Research Area Urban Systems
<b>Type of Course</b>	Project Seminar
<b>Day of the week Time</b>	Opening week: April, 8 until 12 (every day: 9:30 -17:00) Mondays between 9:30 and 17:00 (April, 15 until July 12) Final meeting: July, 26
<b>Campus Room</b>	Essen consult LSF
<b>Credits</b>	10
<b>Hours/per week (SWS)</b>	4
<b>Language</b>	English/ German
<b>Description/ Kommentar</b>	<p>Health is one of the main needs of humans. Determinants of health include the social, economic and cultural environment as well as the physical environment. The <i>Emscher conversion</i> – as one of Europe’s biggest infrastructure projects – aims at the reconstruction of an 80-kilometre open wastewater conduit to a restored natural waterway. This reconstruction comprises technical, social, cultural, political, economic, and environmental aspects. Thus, the assessment of direct and indirect health impacts of the conversion requires an interdisciplinary approach. Using the real-life project <i>Emscher conversion</i> as an excellent example to study the complex structure of urban settings, this practice-oriented seminar includes methods and techniques from epidemiology, engineering (i.e. water, logistics) and social sciences as well as city planning and urban design. Aim is to allow students to develop a comprehensive picture and understanding of urban settings and development. Main tasks of the three- to five-person groups include the selection of suitable urban districts of the <i>Emscher</i> region by analyzing topographic maps, the characterization of selected districts according to historical developments, structural, social, environmental and health conditions, using secondary and primary data. By matching these data students will find specific district related problems as well as most suitable and convincing conditions and solutions.</p>

Link LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=204993&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.1: Sustainable Water Management (strongly recommended)</b>
<b>Lecturer</b>	Niemann
<b>Faculty/ Department</b>	Engineering
<b>Type of Course</b>	Exercise/Seminar
<b>Day of the week</b>	Thursday
<b>Time</b>	12:00 - 16:00
<b>Campus</b>	Essen, Schützenbahn
<b>Room</b>	SA 215
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	4
<b>Language</b>	English
<b>Description/ Kommentar</b>	<p>The course “Sustainable Water Management” aims to provide essential aspects in the context of urbanization and water management. The lectures will, next to the legal framework, present aspects of water quantity and water quality management as well as ecological aspects in urbanized areas. Thus, interactions between water and energy, water and health and conflicts on the use of water resources will be introduced and discussed.</p> <p>Using a case study, the students will apply the introduced knowledge. Different aspects of the case study will be analysed in small groups. Dependencies as well as restrictions will be shown and discussed.</p>
<b>Registration</b>	<a href="mailto:viktoria.berger@uni-due.de">viktoria.berger@uni-due.de</a>

Link LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=211190&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.2: Socio-economic &amp; technological enablers of urban change (English)</b>
<b>Lecturer</b>	Krumme et al
<b>Faculty/ Department</b>	Engineering
<b>Type of Course</b>	Seminar/Blocks
<b>Day of the week Time</b>	Please contact for appointments: klaus.krumme@uni-due.de
<b>Campus Room</b>	Essen
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	2
<b>Language</b>	English
<b>Description/ Kommentar</b>	
<b>Registration</b>	<a href="mailto:klaus.krumme@uni-due.de">klaus.krumme@uni-due.de</a>

Link LSF:

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.3: Climate change and adaptation strategies within urban areas</b>
<b>Lecturer</b>	Goldbach
<b>Faculty/ Department</b>	Biology
<b>Type of Course</b>	Seminar
<b>Day of the week</b>	Tuesday
<b>Time</b>	12:00 - 14:00
<b>Campus Room</b>	Essen, Schützenbahn SM 102
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	4
<b>Language</b>	English
<b>Description/ Kommentar</b>	In this lecture we will considering with the characteristics of Global Climate Change, the impact of the Global Climate Change on the urban environment (urban thermal climate, urban air constituents) and urban measures / urban adaptation strategies against Global Climate Change.
<b>Registration</b>	anja.goldbach@uni-due.de

Link LSF: <https://campus.uni-duisburg-essen.de/lfs/rds?state=verpublish&status=init&vmfile=no&publishid=211335&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.4: Future Urban Energy Systems (English)</b>
<b>Lecturer</b>	Walloth/Schnabel/Schmidt
<b>Faculty/ Department</b>	Engineering
<b>Type of Course</b>	Blocks /Seminar
<b>Day of the week Time</b>	Blocks (four meetings): May, 31; June, 7; June, 14 <b>or</b> 21; July, 19 (Fridays) 10:00 until 17:00
<b>Campus Room</b>	Essen Look LSF
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	4
<b>Language</b>	English
<b>Description/ Kommentar</b>	Consult LSF
<b>Registration</b>	<a href="mailto:fabian.schnabel@uni-due.de">fabian.schnabel@uni-due.de</a>

Link LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=204994&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>



<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.5: Elektrische Energieversorgungssysteme (German)</b>
<b>Lecturer</b>	Erlich
<b>Faculty/ Department</b>	Engineering
<b>Type of Course</b>	Lecture
<b>Day of the week</b>	Wednesday
<b>Time</b>	12:00 - 15:00
<b>Campus</b>	Duisburg
<b>Room</b>	BA 125
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	3
<b>Language</b>	German
<b>Description</b>	Consult Link LSF
<b>Registration</b>	istvan.erlich@uni-due.de

Link LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=203757&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.6: Operations Research (German)</b>
<b>Lecturer</b>	Kimms
<b>Faculty/ Department</b>	Economics
<b>Type of Course</b>	Lecture
<b>Day of the week</b>	Wednesday
<b>Time</b>	12:00 – 15:00
<b>Campus</b>	Duisburg
<b>Room</b>	LA Audimax
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	3
<b>Language</b>	German
<b>Description/ Kommentar</b>	Siehe LSF
<b>Registration</b>	<a href="mailto:alf.kimms@uni-due.de">alf.kimms@uni-due.de</a>

LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=209343&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.7: Constructive Road Construction: management of the municipal road maintenance (German)</b>
<b>Lecturer</b>	Wundes/Mielke
<b>Faculty/ Department</b>	Engineering
<b>Type of Course</b>	Lecture/Exercise
<b>Day of the week</b>	Thursday
<b>Time</b>	12:30 – 15:45
<b>Campus Room</b>	Essen V15 R03 H55 (please consult LSF-Link)
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	
<b>Language</b>	German
<b>Description/ Kommentar</b>	Planung von Erhaltungsmaßnahmen - Inhalt und Aufbau von Straßendatenbanken - ustandserfassung - Zustandbewertung - Instandhaltung und Instandsetzung - Erneuerung von Verkehrsflächen - Bearbeitung aktueller Themen aus dem Verkehrswegebau
<b>Registration</b>	<a href="mailto:alf.kimms@uni-due.de">alf.kimms@uni-due.de</a>

LSF: <https://www.lsf.uni-due.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=203344&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.8: Sustainable Urban Logistics</b>
<b>Lecturer</b>	Remida/Noche
<b>Faculty/ Department</b>	Ingenieurwissenschaften/ Logistik
<b>Type of Course</b>	SE
<b>Day of the week</b>	Wednesday: between May, 8 and June, 26
<b>Time</b>	8:30 – 10:00
<b>Campus</b>	Duisburg
<b>Room</b>	SK 10
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	2
<b>Language</b>	English
<b>Description/ Kommentar</b>	This research seminar is dedicated to the analysis of interconnected urban logistics systems, with a particular focus on social, economic and ecological dimensions of the sustainable development in urban areas. A holistic approach to urban mobility and an understanding of the science of logistics as the study of flows in networks should guide students in grasping the complexity of current and future challenges facing urban systems.
<b>Anmeldung/registration</b>	Herr Remida: <a href="mailto:auo@hotmail.de">auo@hotmail.de</a>

LSF: no Link!

<b>Module</b>	<b>5A: Intermediate Module - Sustainable Urban Technologies</b>
<b>Title of the course</b>	<b>5A.9: Trink- und Prozesswasseraufbereitung</b>
<b>Lecturer</b>	Gimbel
<b>Faculty/ Department</b>	Ingenieurwissenschaften
<b>Type of Course</b>	SE
<b>Day of the week</b>	Thursday
<b>Time</b>	8:45 – 10:14
<b>Campus</b>	Duisburg
<b>Room</b>	MB 242
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	2
<b>Language</b>	Deutsch
<b>Description/ Kommentar</b>	<p>Nach einem Überblick über die verfahrenstechnischen Prozesse und mögliche Kombinationen werden in der Veranstaltung schwerpunktmäßig die Grundlagen zu folgenden verfahrenstechnischen Prozessen behandelt:</p> <p>Oxidation, Ionenaustausch, Adsorption, Flockung, Filtration (konventionelle Verfahren), Gasaustausch, Entkarbonisierung, Membranverfahren, Sedimentation, Schlammbehandlung</p> <p>Lernziele : Die Studierenden kennen die Grundlagen zum Verständnis für die verfahrenstechnischen Prozesse im Bereich der Wasseraufbereitung (Trinkwasser, Prozesswasser). Weiterhin können sie grundlegende Ansätze zur Auslegung der verschiedenen Prozesse anwenden.</p>
<b>Anmeldung/Registration</b>	<a href="mailto:rolf.gimbel@uni-due.de">rolf.gimbel@uni-due.de</a>

LSF: <https://www.lsf.uni-due.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=204394&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II</b>
<b>Title of the course</b>	<b>6A.1: Grundlagen der strategische Stadtentwicklungsplanung – sozial, ökonomisch, ökologisch</b>
<b>Lecturer</b>	Hassenpflug
<b>Faculty</b>	Profilschwerpunkt “Urbane Systeme”
<b>Type of course</b>	SE
<b>Day of the week Time</b>	Blocks: 2 <sup>nd</sup> May(Thursday) (13 - 18 ) 3 <sup>rd</sup> May (Fr) (9 -13 ) 26 <sup>th</sup> June (We) (15 -18 ) 27 <sup>th</sup> June (Thursday) (9 - 15 ) 11 <sup>th</sup> July(Thursday) (13 - 18 ) 12 <sup>th</sup> July(Fr) (9 -13 )
<b>Campus Room</b>	Campus Essen Siehe LSF
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	2
<b>Language</b>	Überwiegend Deutsch (begründet durch den fachlichen Hintergrund (deutsche Texte als Grundlage) / Erläuterungen auch in Englisch, allerdings sollten die TeilnehmerInnen zumindest Deutsch verstehen können
<b>Description/ Kommentar</b>	Das Seminar bietet eine praxisorientierte Einführung in die Grundbegriffe und Methoden des zukunftsorientierten städtischen Qualitätsmanagements. Das didaktische Konzept sieht vor, gemeinsam einen strategischen Plan für eine konkrete deutsche Referenzstadt zu entwickeln. Dieser Ansatz bietet den Studierenden die Möglichkeit, praxisnah alle relevanten Themen und Konzepte der strategischen Stadtentwicklungsplanung (SSEP) kennenzulernen. Behandelt werden: Die Bedeutung der SSEP; die rechtlichen Grundlagen der SSEP; Profil der Referenzstadt (z.B. Stadt in Zahlen, Bildern und Selbstbeschreibungen); Stärken-Schwächen-Analyse der Referenzstadt (SWOT); Evaluation der Entwicklungsplanung der Referenzstadt; Vision und Leitbild für einen strategischen Stadtentwicklungsplan; Maßnahmen und Projekte für die Zukunft. Die Themen werden in Gruppen bzw. Einzelprojekte bearbeitet und abschließend zu einem kohärenten strategischen Stadtentwicklungsplan integriert. Ziel ist es, eine realitätstüchtige Expertise zu erstellen.
<b>Registration</b>	<a href="mailto:elke.hochmuth@uni-due.de">elke.hochmuth@uni-due.de</a>

Link LSF: <https://www.lsf.uni-due.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=205002&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II</b>
<b>Veranstaltungsname</b>	<b>6A.2: Low Carbon Society - Roadmapping for Sustainability Transitions at Local and Regional Level</b>
<b>Lecturer</b>	Ralf Schüle, Wuppertal Institut
<b>Type of Course</b>	SE/Block
<b>Day of the week Time</b>	19 <sup>th</sup> April (Fr) (10- 12 ) 26 <sup>th</sup> April (Fr) (10 - 13 ) 28 <sup>th</sup> June (Fr) (10 - 17 ) 5 <sup>th</sup> July (Fr) (10 - 17 )
<b>Campus Room</b>	Campus Essen Siehe Link im LSF
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	2
<b>Language</b>	Englisch
<b>Description/ Kommentar</b>	Many European member states have committed to very ambitious emission reduction targets until the year 2050. In this regard, the question occurs what structural technological, political and institutional conditions are required in order to improve climate action in different types of urban settlements. Currently, cities and regions are experiencing far-reaching socio-economic transformations (e.g. economic, structural, demographical as well as social change) that need to be adjusted and managed towards a more sustainable climate action. Against this background, the seminar will address the current challenges and perspectives of modern climate and energy policy at local and/or regional levels. It will convey an overview of opportunities and boundaries of ambitious climate action programmes and will identify interlinkages and potential contradictions to other relevant fields of governance at the local level. Furthermore, it will address functions and interest constellations of different public and private agents in national multilevel governance systems. Starting with a German background and depending on the interest of the seminar participants, the seminar will also analyse local conditions for ambitious climate policies in other OECD and/or non-OECD countries.
<b>Registration</b>	<a href="mailto:elke.hochmuth@uni-due.de">elke.hochmuth@uni-due.de</a>

Link LSF: <https://www.lsf.uni-due.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=210652&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

<b>Module</b>	<b>6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II</b>
<b>Veranstaltungsname</b>	<b>6A.3: Cross-cultural Communications and Competence</b>
<b>Lecturer</b>	Michael Tighe, virtual-teamwork.com
<b>Type of Course</b>	SE/Block
<b>Day of the week</b> <b>Time</b>	1. July (Mo) (10 bis 17 ) 2. Juli (Di) (10 bis 17 ) 3. Juli (Mi) (10 bis 17 )
<b>Campus</b> <b>Room</b>	Campus Essen Siehe Link im LSF
<b>Credits</b>	5
<b>Hours/per week (SWS)</b>	2
<b>Language</b>	English
<b>Description/ Kommentar</b>	This three-day seminar/workshop combines phases of theoretical input, simulation, discussion and reflection on key topics related to effective cross-cultural interaction in an international professional context. Definitions of culture, cross-cultural competence and major theoretical constructs are brought to life in case studies, cultural briefings, pragmatic communication exercises, virtual elements and interactive simulations.
<b>Registration</b>	<a href="mailto:elke.hochmuth@uni-due.de">elke.hochmuth@uni-due.de</a>

Link LSF: <https://www.lsf.uni-due.de/lsf/rds?state=verpublish&status=init&vmfile=no&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung&veranstaltung.veranstid=210645&purge=y&topitem=lectures&subitem=editlecture&asi=gph.uNX6CLUr0ZUWECz5>



<b>Module</b>	<b>Keine Zuordnung (freiwillige Teilnahme, Teilnahme empfohlen)</b>
<b>Title of the course</b>	Ringvorlesung der Urbanen Systeme: „Stadt 2030“
<b>Dozenten</b>	Gurr /Schmidt (verantwortlich) Unterschiedliche Fachleute aus Wissenschaft, Politik und Wirtschaft
<b>Veranstaltungsart</b>	Vorlesung/Vortragsreihe von Externen
<b>Fakultät</b>	Profilschwerpunkt Urbane Systeme
<b>Wochentag</b> <b>Uhrzeit</b>	Mittwochs zwischen dem 8.5. und dem 10.7.2013 18:00 bis 20:00 Uhr
<b>Campus</b> <b>Raum</b>	Campus Essen und Sparkasse Essen, 9. Stock (nur am 8.5. und 10.7.) Campus: R11 T00 D01
<b>Sprache</b>	Deutsch
<b>Beschreibung</b>	Die vor uns liegenden zwei Jahrzehnte bis 2030 werden entscheiden, wie die Gesellschaft mit den Herausforderungen des Klimawandels, der Energiewende und der Nachhaltigkeit umgeht. Unsere Strategien und Konzepte, die Entscheidungen und Umsetzungen werden die Stadt 2030 prägen, die wir künftigen Generationen hinterlassen und die ihr Leben prägen wird. In der Ringvorlesung 2013 steht die Stadt 2030 im Mittelpunkt. Fachleute aus Wissenschaft, Politik und Wirtschaft werden ihre individuelle Perspektive auf Stadt 2030 und Herausforderungen und Schwerpunkte darstellen. Dabei soll der Blick auf Stadt und Region in der Metropole Ruhr, aber auch auf urbane Entwicklungen und Trends, Urbanisierung und Urbanität in China und Australien sowie generell in einer künftigen Stadt gerichtet sein. Die Referenten werden abschließend aus fachlicher Sicht praktische Schritte und Phasen zur Umsetzung skizzieren.

Link LSF: <https://campus.uni-duisburg-essen.de/lsf/rds?state=verpublish&status=init&vmfile=no&publishid=211281&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>

# 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	<b>Module 1: Integrative Module I - Introduction to Urban Systems</b> 1.1: Key issues in Urban Systems (lecture) 1.2: Introduction: Sustainable Urban Technologies (lecture/seminar) 1.3: Introduction: Urban Culture, Society and Space (lecture/seminar) 1.4: Introduction: First Steps into Urban Planning (lecture/seminar) <b>Module 2A: Introductory Module - Sustainable Urban Technologies</b> (students have to choose 2 from various courses on offer) <b>Module 3A: Interdisciplinary Complementary Module - Urban Culture, Society and Space I</b>	
			3	2		
			4	2		
			4	2		
		2+3	10+5	4+2		
2.	SS	4	10	4	<b>Module 4: Integrative Module II - "Healthy City" practically oriented seminar (internal)</b> <b>Module 5A: Intermediate Module - Sustainable Urban Technologies</b> (students have to choose 3 from various courses on offer) <b>Module 6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II</b>	
		5+6	15+5	6+2		
3.	WS	7	20		<b>Module 7: Internship Project (external, three months)</b> <b>Module 8A: Advanced Module - Sustainable Urban Technologies</b> (students have to choose 2 from various courses on offer)	
		8	10	4		
4.	SS	9	25		<b>Modul 9: Masters Thesis</b> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <b>Oral Examination</b> </div>	
			5			
<b>Σ disciplinary (without MA Thesis/Colloq.)</b>			<b>35</b>	<b>14</b>	<b>Annotations</b> (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	
<b>Σ Integration</b>			<b>25</b>	<b>12</b>		
<b>Σ Complementary</b>			<b>10</b>	<b>4</b>		
<b>Masters Thesis + Oral Examination</b>			<b>30</b>			
<b>Practical Project/Internship (Module 7)</b>			<b>20</b>			
<b>Σ</b>			<b>120</b>	<b>30</b>		