

Schedule of Lectures

**„Sustainable Urban
Technologies (SUT)“**

summer term 2012

Overview

Sustainable Urban Technologies				
No. of Module	Title of the Course	Lecturer	Faculty /department	Type of course
4	Integrative Module II – “Healthy City” practically oriented seminar			
	Healthy City	Moebus, Gurr, Schmidt et. al.	Main Research Area „Urban Systems”	SE
5A	Intermediate Module - Sustainable Urban Technologies (students choose the seminar of Walloth plus two of the other courses)			
5A.1	Urban Systems Governance	Walloth/ Schmidt	Engineering	SE
5A.2	Energiewirtschaft	Erlich	Engineering	VO/Übung
5A.3	Elektrische Energieversorgungssysteme	Erlich	Engineering	VO
5A.4	Constructive Road Construction: management of the municipal road maintenance	Straube/ Knauff	Engineering	VO/ Exercise
5A.5	Fundamentals of Urban Climatology	Kuttler	Geography	SE
5A.6	sustainable urban logistics	Remida/Noche	Ingenieurwissenschaften	SE
5A.7	Ecosystems Services, Ecological Economics & Sustainability	Krumme	Ingenieurwissenschaften	SE/Block
6A	Interdisciplinary Complementary Module – Urban Culture, Society and Space II (students choose one of the following courses)			
6A.1	Grundlagen der strategischen Stadtentwicklungsplanung - sozial, ökonomisch, ökologisch	Hassenpflug	Main Research Area „Urban Systems”	SE/Blocks
6A.2	Die Kommune als politisches Subjekt - Aktuelle Herausforderungen	Wermker	Main Research Area „Urban Systems”	SE/Blocks
6A.3	Metropolitan areas – structures, problems and management	Wehling	Geography	VO/SE
6A.4	Special Issues of Urban Geography	Wehling	Geography	VO/SE

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 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) Module 2A: Introductory Module - Sustainable Urban Technologies (students have to choose 2 from various courses on offer)	
			3	2		
			4	2		
			4	2		
		4	2			
		2+3	10+5	4+2	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)	
3.	WS	7	20		Module 6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II	
		8	10	4	Module 7: Internship Project (external, three months) 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 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Oral Examination </div>	
			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		

Module	Integrative Module II (compulsory)
Title of the course	4: "Healthy and Livable City" practically oriented seminar
Lecturer	Moebus / Gurr/ Schmidt et al.
Faculty/ Department	Main Research Area Urban Systems
Type of Course	Seminar
Day of the week Time	First Block: 2 April – 5 April 10:00 – 16.30 More appointments upon consultation
Campus Room	Essen R12 S05 H20
Credits	10
Hours/per week (SWS)	4
Language	English/ German
Description/ Kommentar	<p>Healthy and Livable City</p> <p>The urban built environment in which we live is a significant determinant of health. Thus, it can both reinforce health-promoting conditions and reduce health-related risks. Not single factors influence an individual, rather a complex interplay of various spheres of influence is to be assumed.</p> <p>The aim of this course is to introduce health concepts to the students and to provide them with an understanding of the health implications of development issues in the built environment and with an opportunity for learning in an interdisciplinary context.</p> <p>The students will work together in small groups to analyze interrelations between the urban environment, the health conditions and health-related behavior of the residents. They will develop innovative research questions for their respective projects in a specific local area, assess and evaluate quantitative and qualitative data, make a report, and present their findings.</p>

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Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.1: Urban Systems Governance (strongly recommended)
Lecturer	Walloth/ Schmidt
Faculty/ Department	Engineering
Type of Course	SE
Day of the week	Thursday
Time	10:00 - 12:00
Campus	Essen
Room	V15 S02 C87
Credits	5
Hours/per week (SWS)	2
Language	English
Description/ Kommentar	This series of lectures and workshops is designed to support the students in their quest of finding their societal position as interdisciplinary urban systems scholars. The course aims at preparing the students to become responsible scientists, policy-makers or advisers to urban decision makers. The lectures and workshops therefore put the urban system in perspective of a greater whole in the discussion of good urban governance and in the light of science philosophy.
Registration	christian.walloth@stud.uni-due.de

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Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.2: Energiewirtschaft
Lecturer	Erlich
Faculty/ Department	Engineering
Type of Course	VO/Übung
Day of the week	Monday
Time	12:00 – 15:00
Campus	Duisburg
Room	BC 003
Credits	5
Hours/per week (SWS)	3
Language	German
Description/ Kommentar	Siehe LSF
Registration	istvan.erlich@uni-due.de

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Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.3: Elektrische Energieversorgungssysteme
Lecturer	Erlich
Faculty/ Department	Engineering
Type of Course	VO
Day of the week	Dienstag
Time	12:00 – 15:00
Campus	Duisburg
Room	BA 127
Credits	5
Hours/per week (SWS)	2
Language	German
Description/ Kommentar	Siehe LSF
Registration	istvan.erlich@uni-due.de

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Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.4: Constructive Road Construction: management of the municipal road maintenance
Lecturer	Straube/ Knauff
Faculty/ Department	Engineering
Type of Course	VO / Übung
Day of the week	Thursday
Time	12:00 – 15:00
Campus	Essen
Room	V15 R03 H55
Credits	5
Hours/per week (SWS)	2
Language	English/German
Description/ Kommentar	Planning of road maintenance procedures, content and structure of road databases, structural assessment, maintenance and repair, renewal of road surfaces, current issues in the transportation infrastructure
Registration	marcel.knauff@uni-due.de

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Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.5: Einführung in die Stadtökologie und Stadtklimatologie (Wahl dringend empfohlen)
Lecturer	Kuttler
Faculty/ Department	Biology
Type of Course	Lecture
Day of the week	Tuesday
Time	between 10 a.m. and 12 a.m.
Campus	Campus Essen
Room	SR 102
Credits	5
Hours/per week (SWS)	2
Language	English / German
Description/ Kommentar	
Registration	andreas.barlag@uni-due.de

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Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.6: sustainable urban logistics
Dozent/in	Remida/Noche
Fakultät/ Fachgebiet	Ingenieurwissenschaften/ Logistik
Veranstaltungsart	SE
Wochentag	Freitag
Uhrzeit	8.30 bis 10:00 Uhr
Campus	Duisburg
Raum	MB 244
Credits	5
SWS	2
Sprache	English/ German
Description/ Kommentar	
Anmeldung	Herr Remida: auo@hotmail.de

Module	5A: Intermediate Module - Sustainable Urban Technologies
Title of the course	5A.7 Ecosystems Services, Ecological Economics & Sustainability
Dozent/in	Krumme
Fakultät/ Fachgebiet	Ingenieurwissenschaften/ Logistik
Veranstaltungsart	SE/Block
Block	23.7. bis 27.7.
Uhrzeit	10:00 - 16 o'clock
Campus	Essen
Raum	R11 T06 D16
Credits	5
SWS	2
Sprache	English/ German
Description/ Kommentar	
Anmeldung	Klaus.krumme@uni-due.de From 11th April until 30 th May 2012

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Module	6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II
Title of the course	6A.1: Grundlagen der strategische Stadtentwicklungsplanung – sozial, ökonomisch, ökologisch
Dozent/in	Hassenpflug
Fakultät/ Fachgebiet	Profilschwerpunkt “Urbane Systeme”
Veranstaltungsart	SE
Wochentag Uhrzeit	Blocks: donnerstags und freitags 12. / 13. April 10. / 11. Mai 21 / 22. Juni 05./ 06. Juli DO: 13:00 bis 18:00 Uhr; FR: 9:00 bis 13:00 Uhr
Campus Raum	Campus Essen Siehe LSF
Credits	5
SWS	2
Sprache	Deutsch
Description/ Kommentar	<p>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.</p> <p>Das Seminar wird als Blockveranstaltung angeboten. Die Termine sind: 12. u. 13. April (Einführung und Arbeitsverteilung); 10. u. 11. Mai (Konsultation/Zwischenkritik); 21. u. 22. Juni (Konsultation/Zwischenkritik) und der 5. u. 6. Juli (Abschlusspräsentation)</p>
Anmeldung:	elke.hochmuth@uni-due.de

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Module	6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II
Title of the course	6A.2: Die Kommune als politisches Subjekt – Aktuelle Herausforderungen
Dozent/in	Wermker
Fakultät/ Fachgebiet	Profilschwerpunkt "Urbane Systeme"
Veranstaltungsart	SE
Wochentag Uhrzeit	Blocks: donnerstags und freitags 19./20. April, 3./4. Mai, 24./25. Mai 14./15. Juni DO: 14:00 bis 18:00 Uhr; FR: 10:00 bis 16:00 Uh
Campus Raum	Campus Essen
Credits	5
SWS	2
Sprache	Deutsch
Description/ Kommentar	In diesem Seminar steht die Kommune und das Handeln der Kommune im Mittelpunkt des Interesses. Hierbei werden die Möglichkeiten und die Handlungsspielräume der kommunalen Akteure bei Entscheidungsprozessen, Kooperationen innerhalb und zwischen den Kommunen, die Bedeutung von Netzwerken und Netzwerkarbeit sowie die Legitimation bürgerschaftlichen Engagements unter den aktuellen Herausforderungen wie bspw. demographischer Wandel, starke Ungleichheiten und finanziellen Krisen thematisiert. Zu den einzelnen Veranstaltungsblöcken werden unterschiedliche administrative Akteure als Gäste erwartet, die aus ihrer Sicht die angegebenen Aspekte bereichern sollen.
Anmeldung:	elke.hochmuth@uni-due.de

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Modul	6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II
Veranstaltungsname	6A.3: Statistical Methods and Cartography in Urban Studies
Dozent/in	Wehling
Fakultät/ Fachgebiet	Geographie/ Geisteswissenschaften
Veranstaltungsart	VO/SE
Wochentag	Dienstag
Uhrzeit	14 bis 16:00 Uhr
Campus	Essen
Raum	SM 102, SR 102
Credits	5
SWS	2
Sprache	English
Description/ Kommentar	Applied to urban problems and processes, the students will be introduced to the fundamentals of descriptive and analytical statistics, to Excel statistical tools, to SPSS as well as to the basics of cartography and map-making using GIS. A reader will be provided.
Anmeldung	birgit.sattler@uni-duisburg-essen.de

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info&publishConfFile=webInfo&publishSubDir=veranstaltung)

Modul	6A: Interdisciplinary Complementary Module - Urban Culture, Society and Space II
Veranstaltungsname	6A.4: Special issues of Urban Geography
Dozent/in	Wehling
Fakultät/ Fachgebiet	Geographie/ Geisteswissenschaften
Veranstaltungsart	VO/SE
Wochentag	Dienstag
Uhrzeit	10 bis 12:00 Uhr
Campus	Essen
Raum	SM 102
Credits	5
SWS	2
Sprache	English
Description/ Kommentar	The lecture will be focussed on current urban problems and processes, as e.g. the crisis of the city-centre, social segregation, gentrification, prestigious places, protection of the urban landscape, urban marketing and tourism, fiscal ties and low budgets, waterfront development, urban ecology. Examples will be taken from Germany, Europe and overseas.
Anmeldung	birgit.sattler@uni-duisburg-essen.de

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