

Course Catalogue for Winter Semester 2020/2021

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The following lectures (L), seminars (S) and exercises (E) are part of the compulsory offers, according to your Performance Control Sheet. Additional offers for the elective courses are listed from page 08 on.

Module: Urban Development and Design

2 SWS/ 3 CP

Prof. Dr.-Ing. Bernd Nentwig, Dipl.-Ing. Philippe Schmidt, M.Sc.,
and guest lecturers

L Urban Development and Design (118220204)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Tuesdays, 15:15 – 16:45 | Marienstraße 13 c, Lecture hall C + online
start: 03.11.2020
registration: through online platform BISON

Content

The understanding of a well-balanced urban development regarding social, economic and environmental needs is one of the main outlines of European Urban Policies to promote more sustainable cities. In 2007 the responsible ministers for urban development from 27 countries declared the Leipzig Charter as guiding principle to reach a stronger cohesion of the different factors that would be necessarily be more streamlined to reach such sustainable development. Integrated Urban Development Concepts since then have become a main instrument of urbanists to guide this process.

Urban and architectural qualities under the objective of climate adaptation and protection, renewable resources and resource conservation as well as long-term intergenerational perspectives are just some of the topics that have to be negotiated for more comprehensive future cities. For the disciplines concerned with urban design this means to develop a holistic view on the city and an understanding between the different disciplines, also in terms of a social equilibrium in urban space.

For this purpose the lectures in this module are framing different objectives of the Master's Programme »Integrated Urban Development and Design« with the idea to support the "urban curator" to develop a holistic view on the city and an understanding between the different disciplines. The lecture introduces different perspectives on integrated urban development in the sense of multi-disciplinary planning approaches with a closer look on their implementation. Creative strategies and selected examples of "good practice" show how different approaches can be implemented through the lens of different disciplines, bringing together an academic and application-oriented reflection of the subject.

This year's IUDD lectures will be a combination of online-lectures and invited guest lecturers related to different approaches of requalifying cities and regions in terms of managing change and paradigm shifts. The goal of the lectures is to develop a general understanding and overview about how urban development and urban design can be considered in an interdisciplinary and integrated approach.

Module: Project Development

2 SWS/ 3 CP

Prof. Dr.-Ing. Bernd Nentwig, Shimin Huang M.Sc.

L Real Estate Development (118220205)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Tuesdays, 09:15 – 10:45 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 03.11.2020
registration: through online platform BISON

Content

This course consists of lecture series and seminar, which offers an opportunity integrating architects, urban planners, developers to explore different topics of real estate development together with various aspects.

The lecture series will focus on the main topics of urban development and real estate, such as analyzing trends of the real estate market, offering economic perspectives in various phases of project development, introducing different property types together with different social milieus.

Additional to this lecture series, there is a complementary seminar which allows you to exercise the knowledge which you collect from the lectures. In this semester, we will offer you an opportunity to explore one specific real estate typology from these two: Retail or Hotel. The seminar will guide you through the tasks which you have to accomplish by broadening and deepening the insight of how an evaluation research report is composite at an early project development stage.

In order to acquire 6 Credit Points in total, you must attend both lectures and seminars.

Module: *Urban Sociology*

2 SWS/ 3 CP

Prof. Dr. Frank Eckardt

L Urban Sociology (Introduction) (1724415)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Wednesdays, 09:15 – 10:45 | online
start: 04.11.2020
registration: through online platform BISON

Content

Life in German cities has undergone substantial changes in the last decade. Not only the East German cities had to address new challenges after the reunification of the German nation in 1990, but also the West German cities had to reformulate their place in the complex urban networks. Cities are mirroring wider changes in German society where new social and political developments can be observed. Economic and cultural globalization has had a major impact on many aspects of urban life.

This lecture will give an overview about major developments in German cities since the German reunification in 1990. It will provide both a sound source of information on the most important issues of German society and reflect important discussion of the international debate on urban studies. After delivering a historical overview of German cities, basic concepts of urban sociology will be developed by discussing subjects like gentrification, segregation, migration, life style diversity and others. The lecture provides an insight view into classical theories of urban sociology as deriving from Max Weber, Georg Simmel and the Chicago School..

SEMINARS

Module: *Project Development*

2 SWS/ 3 CP

Prof. Dr.-Ing. Bernd Nentwig, Shimin Huang, M.Sc.

S Real Estate Development (118220206)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Tuesdays, 11:00 – 12:30 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 03.11.2020
registration: through online platform BISON

Content

This course consists of lecture series and seminar, which offers an opportunity integrating architects, urban planners, developers to explore different topics of real estate development together with various aspects.

The lecture series will focus on the main topics of urban development and real estate, such as analyzing trends of the real estate market, offering economic perspectives in various phases of project development, introducing different property types together with different social milieus. Additional to this lecture series, there is a complementary seminar which allows you to exercise the knowledge which you collect from the lectures. In this semester, we will offer you an opportunity to explore one specific real estate typology from these two: Retail or Hotel. The seminar will guide you through the tasks which you have to accomplish by broadening and deepening the insight of how an evaluation research report is composite at an early project development stage.

In order to acquire 6 Credit Points in total, you must attend both lectures and seminars.

Module: *Urban Sociology*

2 SWS/ 3 CP

Dr. phil. Bernhard Stratmann

S Green Dreams of Suburbia: Climate Change, Sustainability, the COVID-19 pandemic and Urban Form (120220601)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Wednesdays, 11:00 – 12:30 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 04.11.2020
registration: through online platform BISON

Content

When looking at suburbs, people and planners often see something very different. Whereas the former dream of a better lifestyle, the latter often talk about urban sprawl and point to a long list of negative aspects of this kind of urban form. Particularly in view of rising energy consumption, Peak Oil and possible climate change continuing trends towards global suburbanization have caused concerns. However, more recently the "reading" of suburbs has changed. The prevailing critical discourse has been challenged by the assumption that suburbs – if designed and managed well – can be aligned with the overall goal of sustainability. This includes a reappraisal of "suburbanism as a way of life" that might offer a lot. The seminar will examine the current debate by taking American, Australian, Chinese and German cities as an example. To this end concepts of sustainable urban development will be explored, followed by a practice review. It will be argued that the debate on suburbia is embedded in a much larger, underlying debate on the good life.

The Coronavirus (COVID-19) pandemic and similar future risks give rise to questions such as: Is urban densification still a good approach in urban planning? Is the global trend towards more and ever larger metropolises healthy and sustainable? Would more decentralized settlement structures and lower urban densities better protect human health, and, in doing so, increase the overall resilience of cities and countries? Or would these strategies, on the contrary, create an abundance of adverse effects?

Module: *Introduction to Study Project*

2 SWS/ 3 CP

Vertr.-Prof. Dr. Sven Schneider, Abdulmalik Abdulmawla M.A.

S Parametric Urban Design and Analysis (118222405)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Wednesdays, 15:15 – 16:45 | Belvederer Allee 1 A, Mediapool 003 + online
start: 04.11.2020
registration: through online platform BISON

Content

The definition of urban form (street network, plots, building volumes) is a crucial step in the planning of cities because it has the longest lasting effect on their social, economic and ecological performance. Thus, this step needs to be undertaken with greatest care. In this course we will deal with computational methods to support this process. Firstly, you will learn to create parametric models, that allow to quickly generate a large amount of design variants. Secondly, you will get introduced to spatial analysis methods (density, visibility and accessibility) in order to identify different (human centered) qualities of the generated structures.

The knowledge provided through online seminars will be deepened in consultations and documented in several exercises. No prior technical knowledge is required.

Module: *Urban Development and Design*

2 SWS/ 3 CP

Karl Eckert M.Sc.

S EU policies and integrated urban strategies in Europe's urban and regional development (120223701)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Thursdays, 10:00 – 13:30 | green:house, Bauhausstr. 9 C, Room 004 + online (Block courses)
start: 05.11.2020
registration: through online platform BISON

Content

The European Union is heavily investing in the transformation of the urban environment. This recognizes the key role cities play for realizing, for example, the ambitions of the European Green Deal. Upon closer inspection, broad EU policies are defined by historical, cultural, socio-economic and environmental aspects (among others). This makes EU funds and their use an important subject to debate. What are the current challenges being faced by EU regions? How can EU mechanisms be better integrated, support the goals of sustainable development and create the basis for a more just society? Are critical views being heard and are creative integrated solutions truly being implemented?

Integrated urban strategies will be a focus of the seminar. First a presentation of research results and experience in integrated urban projects funded by the EU, including the theoretical foundation and analytical methods will be presented. Topics such as defining "territorial cohesion" and identifying the urban dimension of EU Cohesion Policy will be presented to exemplify the impact currently happening on the city and state level. Students will undertake their own research on a topic of personal interest related to integrated urban development and compare this to EU strategies. At the end of the seminar students shall be able to navigate EU urban policy, identify the impact of integrated urban strategies and debate on future and creative urban visions.

Module: *Culture and Urbanism of China*

2 SWS/ 3 CP

Dr. Eduard Kögel

S Chinese Culture and Society in the Perspective of Urban Development and Architecture (118223701)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Mondays, 11:00 – 15:00 | green:house, Bauhausstr. 9 C, Room 004 + online
start: will be announced
registration: through online platform BISON

Content

Over the last 40 years, society and cities in the People's Republic of China have changed dramatically. At the beginning of the 1980s China was still considered a developing country, but today it is one of the world powers whose voice is clearly audible in many parts of the world. Urban and cultural development in the context of architecture and planning show the possibilities and dreams of a society. In the case of China, the realities and constraints of a mass society, which must find its way between individualisation and equality, are also reflected in design, which in turn has an impact on social and political developments. So what does design look like that has to find a way between these poles that takes into account the different conditions in the metropolis and the hinterland?

The seminar provides background information, discusses scenarios and draws a picture of future challenges. But it also asks what can be learned and under what conditions solutions can be exported from China.

MODEL PROJECT

Module: Model Projects

2 SWS/ 3 CP

Dipl.-Ing. Philippe Schmidt M.Sc.

S Reflective Urban Practice – Model Project Preparatory Course (118223705)

target group: Master Integrated Urban Development and Design (IUDD – RUP) 1st Semester
language: English
time/ location: Mondays, 09:15 – 10:45 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 02.11.2020
registration: through online platform BISON

Content

The Model Project Preparatory Course “Reflective Urban Practice” introduces course participants to current trends in urban development and interdisciplinary approaches that target on “good practice” in applied research, practice and administration. With the diverse professional fields existing in the field of urban development and design participants are prepared to streamline their existing experience for the application at a Model Project Partner. The seminar serves as preparation for the application and placement phase prior to the Model Project semester in autumn/winter 2019. The “Model Project” (24 CP) is the praxis semester that takes place world-wide at a selected “Model Project Partner” (offices, institutions, administration) for the purpose of practical training. The internship arrangement (minimum 3 months) is related to urban design, planning, research and development. The training place is either proposed through the programme or the student, and approved through the coordinator of the Model Projects.

Learning Objectives

Besides an introduction to the 'Model Projects Integrated Urban Development and Design' students learn how to link their existing professional experience and interests to a broader field of professional activities related to planning and design. They present and reflect their professional experience. In a second part, the students are coached to further develop their specific interests and communicate them in their professional portfolio and actively take part in the targeted application for the reflective practice semester. First semester students are also attending the Model Project Forum to get first-hand impressions of content and form of different experiences from last semester's Model Projects.

Participation is mandatory for first semester students in Integrated Urban Development and Design - Reflective Urban Practice (IUDD-RUP). Class based on continuous and active participation.

Module: Model Projects

4 SWS/ 6 CP

Prof. Dr.-Ing. Bernd Nentwig, Dipl.-Ing. Philippe Schmidt, M.Sc.

S Model Project Forum and Seminar (744294)

target group: Master Integrated Urban Development and Design (IUDD – RUP), 3rd Semester
language: English
time/ location: Online seminar, final rehearsal and forum in Weimar, dates to be announced
start: Participants will be informed via E-Mail
registration: Online on moodle platform when course starts

Content

In this module, the International Model Project Forum is prepared in different steps. The seminar's goal is to exchange about and learn from different projects in the field of urban practice where third semester students have been involved during their Model Project semester in the winter semester 2020/21. The seminar challenges students to contextualise the own individual practical work and research experience into a broader context of reflective urban practice and research. This allows participants to deepen the understanding between practice and theory, to contribute real-world-experience in a reflective way and to develop a own set of interdisciplinary approaches within their individual professional role. The seminar also prepares students to hold a lecture dedicated to the International Model Project Forum, which closes as a highlight of the academic training. For this public academic event International Model Project Partners are invited to the forum as senior experts and critiques to the student presentations.

Course structure and requirements

The seminar mainly consist of three phases and is accompanied through a virtual class-room, including a guided course with specific due dates, individual and groupwise online-consultations, life-meetings of the entire group and P2P-meetings as well as video-based presentation-coaching through Adobe Connect.

Course requirements include a final presentation, an interim report and a final report (25-30 pages) which is handed in online and as a printed version. After final rehearsals the module closes with the 19th International “Model Project Forum” (end of April 2019), requiring

students attendance in Weimar or any selected place where the forum takes place. The forum fosters a critical but practice -related discussion among students and model project partners who are attending as guest critiques.

Learning Objectives

In this module students develop an in-depth understanding and exchange about professional fields dedicated to integrated urban development in an international context. Participants reflect the self-positioning and self-understanding of their professional role in the sense of 'Reflective Practice' related to urban strategies and interdisciplinary planning approaches. The final goal is to focus individual experiences about 'Good Practice' through adequate professional project-based training and praxis reflection.

Participation is mandatory for third semester students in Integrated Urban Development and Design, Reflective Urban Practice. Class based on continuous and active participation.

EXERCISE COURSES

Module: Research Methods and Professional Communication **2 SWS/ 3 CP**
Dipl.-Kaufm. Tore Dobberstein
E Moderating Urban Planning Processes (118223704)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Thursdays, 10:00 – 14:30 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 12.11.2020 (Blocks)
 Further dates: 26.11.2020, 10.12.2020, 28.01.2020
registration: through online platform BISON

Content

Integrated development and design processes require skills to effectively communicate with multiple urban actors, ranging from project stakeholders to citizen audiences. Fundamental knowledge of moderation is an important asset for the work with different interest groups in the urban sphere. The exercise course introduces basic moderation skills to meet today's challenges in the field integrated urban development and design, such as cooperative planning, mediation, and project evaluation. This includes the accurate detection of different interests, strategies for multi-interest decisions, and to work with potentially conflicting positions.

Module: Research Methods and Professional Communication **2 SWS/ 3 CP**
Dipl.-Ing. Julia von Mende
E Academic Skills (118223501)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Tuesdays 13:30 – 15:00 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 03.11.2020
registration: through online platform BISON

Content

At the beginning we will deal with the process of production of scientific knowledge as such considering basic 'rules' of scientific work. As learning by doing is usually a successful way which makes us experiencing the specific demands of a research process you will work in the course in small teams defining and planning your own research project. Starting the practical work we will first deal with different sources of information, how to decode and evaluate them as well as how to quote and organize them properly in scientific working and writing. Now having an idea how and where to gather information you will define your own research question and develop a research concept step by step going from a proper wording of the research question to the selection of fitting research methods, time planning and documentation.

MASTER - COLLOQUIUM

Module: Masters' Thesis

2 SWS/ 3 CP

Professors Bauhaus-Universität Weimar

Master - Colloquium

target group: Master Integrated Urban Development and Design
language: English
time/ location: Block course/ see notice-board
start: will be announced
registration: Not necessary, all students accepted for the Master examination have to participate

Content

The course is the platform for presentation and discussion of the Masters theses. The candidates will present the intermediate results of their work on their individual topics. Suggestions for further action will be made by fellow students and academics attending the colloquium. Admission for the Master examination is required for participation. Performance record (attestation) will be achieved by giving an oral presentation.

ELECTIVE COURSES

Module: Elective

2 SWS/ 3 CP

Eng. Mohammed Abdel Aziz Ibrahim Mousa M.Sc..

S|E GIS Basics for Integrated Urban Development (120223702)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Wednesdays 13:30 – 15:00 | green:house, Bauhausstr. 9 C, Room 004 + online
start: 04.11.2020
registration: through online platform BISON

Content

Geographic Information Systems (GIS) are a useful tool for multiple disciplines and user groups. In urban development and planning, different constituencies like local authorities interact through GIS e.g. applying it in environmental agencies, transportation, energy, resource and waste management, retail, disaster management, and socio-economics. Collecting, managing, analysing and visualising data with GIS as an information sharing tool can help in different stages of planning processes – from identifying problems to evaluating different planning proposals. Working with GIS allows to create easy understandable maps and to enable communication processes.

This course introduces different practices and applications of GIS in the wider context of urban development. It suits various users from different backgrounds who are interested in spatial information and mapping. Next to a theoretical insight to GIS, in practical applications participants will learn how to create maps by using ESRI ArcGIS software and get an insight in how experts are using GIS for different purposes related to questions of planning and design. Assignments and short tests have to be accomplished during the exercise based seminar.

Module: Elective

4 SWS/ 6 CP

Prof. Dr. Uwe Plank-Wiedenbeck, Maximilian Rünker M.A.,
Dipl.-Ing. Julius Uhlmann

S International Case Studies in Transportation (2909021)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Seminar: Mondays, 17:00 – 18:30 | Coudraystraße 11, Lecture hall 001
Lecture: Mondays, 18:45 – 21.15 | online
start: 02.11.2020
registration: through online platform BISON

Content

Part A:

How can we achieve sustainable mobility and make cities more liveable? The question will be answered by presenting best practice solutions worldwide. Guest lectures about planning practices in an international context, particularly in urban areas. Detailed information about the 6 guest lectures (speakers and topics etc.) will be announced.

Part B:

At least one student trip (about three to four days) to a European city (e.g. Kopenhagen – cyclist capital, Hamburg – Town planning Harbour city, Berlin – German Aerospace Centre etc.). Detailed information about the excursions (destination, venue, timetable etc.) will be announced. **Due to the current COVID-19-Pandemic, there will be no excursion in the winter term 2020/2021**

Literature:

SCHILLER; KENWORTHY: An introduction to sustainable transportation – Policy, planning and implementation (2018) | HUTTON: Planning sustainable transport (2013) | TUMLIN: Sustainable transportation planning – Tools for creating vibrant, healthy, and resilient communities (2012) | Various articles in the journal INTERNATIONAL TRANSPORTATION

Lecture series in cooperation with FH Erfurt University of Applied Sciences

Guest lectures take place on Mondays 19:00-20:30.

The seminar takes place as in-person events, therefore the number of participants is limited to 10.

Information event Nov 2nd, 17:00.

Module: Elective

2 SWS/ 3 CP

Jun.-Prof. Dr.-Ing. Reinhard König

S Urban Modeling and Simulation (UMS) (119223303)

target group: Master Integrated Urban Development and Design
language: English
time/ location: will be announced, online
start: will be announced
registration: through online platform BISON

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IUDD Programme Coordinator: Dipl.-Ing. (FH) Philippe Schmidt M.Sc.
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Professorships of the bauhaus.intitute for experimental architecture
(alphabetical order by subject)

Professur Bauformenlehre

(Building Morphology)
Prof. Dipl.-Ing. Dipl.-Des. Bernd Rudolf
Geschwister-Scholl-Str. 8, Raum 016
Telefon +49 (0) 3643/58 31 00

Professur Baumanagement und Bauwirtschaft

(Architectural Management)
Prof. Dr.-Ing. Bernd Nentwig
Belvederer Allee 4, Raum 001
Telefon: +49 (0) 3643/58 46 24

Professur Bauphysik

(Building Physics)
Prof. Dr.-Ing. Conrad Völker
Professur Bauphysik
Coudraystrasse 11A, 1. Etage, Raum 110
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Junior Professorship Computational Architecture

(Computational Architecture)
Jun.-Prof. Dr. Reinhard König
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Professur Entwerfen und Baukonstruktion

(Design and Building Construction)
Prof. Dipl.-Ing. Johannes Kuehn
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Professur Entwerfen und Tragwerkskonstruktion

(Design and Structural Systems)
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Professur Informatik in der Architektur

(Computer Science in Architecture)
Vertr.-Prof. Dr.-Ing. Sven Schneider
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Professur Konstruktives Entwerfen und Tragwerkslehre

(Structural Design)
Prof. Dr.-Ing. Jürgen Ruth
Belvederer Allee 1, Raum 002
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