# Vorlesungsverzeichnis

M.Sc. Integrated Urban Development and Design (PO 2025)

Winter 2025/26

Stand 20.10.2025

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# M.Sc. Integrated Urban Development and Design (PO 2025)

# **Compulsory Modules**

# 124222402 Parametric Urban Design :: PUD Basic

#### E. Gavrilov, E. Fuchkina, R. König

Veranst. SWS: 2

2

Seminar

Di, wöch., 11:00 - 12:30, Belvederer Allee 1a - Allg. Medienpool 003, 14.10.2025 - 03.02.2026

# **Beschreibung**

Cities are complex human-made objects, and they consist of thousands of elements and need to satisfy numerous human needs. The definition of urban form (street network, plots, buildings) is a crucial step in the planning of cities because it has the longest lasting effect on their social, economic and ecological performance. Thus, we need to approach this step with the most care. This course will deal with parametric modeling techniques to support this process. Thereby you will learn to create parametric models that allow you to generate a large number of design variants quickly.

# 124222403 Urban Analysis & Simulation :: UAS Basic

#### S. Schneider, M. Bielik, E. Fuchkina, R. König

2

Veranst. SWS:

Seminar

Mi, wöch., 11:00 - 12:30, Belvederer Allee 1a - Allg. Medienpool 003, 15.10.2025 - 04.02.2026

#### Beschreibung

Cities are complex human-made objects, and they consist of thousands of elements and need to satisfy numerous human needs. The definition of urban form (street network, plots, buildings) is a crucial step in the planning of cities because it has the longest lasting effect on their social, economic and ecological performance. Thus, we need to approach this step with the most care. This course will deal with computational analysis methods to support this process. You will learn methods for the quantitative analysis of urban space (such as density, accessibility, visibility) and examine how far these quantities relate to real-life phenomena such as the distribution of uses in a city, movement patterns of urban users or individual spatial experience.

# Study project I Integrated Urban and Landscape Design

# 125522603 Luckenwalde

# S. Langner, E. Peters, J. Petry, M. Trübenbach

Veranst. SWS:

verai

8

Projektmodul

Do, wöch., 09:15 - 16:45, Bauhausstraße 9c - Arbeitsraum 004, 16.10.2025 - 05.02.2026

#### Beschreibung

Luckenwalde, located about 60 kilometres south of Berlin and directly linked to the capital by rail, is representative of many medium-sized East German towns undergoing transformation. The town combines the heritage of a rich industrial past with the traces of structural upheaval that followed reunification—visible in the ciy centre through vacant properties—yet it also retains the qualities of a medium-sized town. Urbanity and rurality meet here, making it possible to enjoy urban living while stayng close to nature. Although linked to the Berlin metropolitan area, Luckenwalde has not yet realised its full potential.

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What might climate-friendly, socially just and future-oriented urban development look like here? How can forward-looking and sustainable living, working and mobility concepts be designed within regionally connected social spaces and how can the potential of landscape and open space-related living be developed? Especially against the backdrop of exploding rents in large cities and the effects of the climate crisis, life in medium-sized towns could once again become increasingly attractive.

The challenges of the post-industrial urban structure are particularly visible in the inner-city quarter "Karree", located between the city centre, the train station and the "Nuthe" landscape park: industrial wastelands, ruinous building structures and contaminated sites speak of Luckenwald's economic heyday as a major hub of the textile industry—here the ruptures are tangible. The district is undergoing redevelopment while also offering space for future visions of a climate-resilient, green, pedestrianised and socially and functionally mixed city.

The "Karree" is a patchwork of building structures from different urban eras, with little connection between them. Derelict (industrial) buildings and ruinous structures stand alongside Wilhelminian-style buildings, detached houses on commercial sites or new buildings from the 1990s. Numerous gaps between buildings, unused plots, vacant buildings or building structures in need of renovation—combined with a lack of public open spaces and poor accessibility — highlight the need for reorganisation. The district's open spaces are mostly unorganised semi-public or private open spaces, resulting in a shortage of public meeting places, quality of stay, accessibility and networking. There are also too few high-quality links between the "Karrees" and the surrounding neighborhoods or the Nuthe landscape park.

Looking at Luckenwald through the lens of open space planning, we are seeking urban and open space planning concepts that address the challenges of climate change, heat stress, sealing and inadequate rainwater management, while also promoting social balance. The challenge is to organise this complex mix of structures, preserve existing qualities and strengthen and reconnect them with new impulses. The aim is to create a lively, mixed-use quarter where living, working, education and leisure coexist in the neighbourhood.

The train station, as both an infrastructural hub and entrance to the city, plays a fundamental role in this transformation. Its rail connection makes Luckenwalde part of the Berlin-Brandenburg metropolitan region and strengthens its ties to the capital. The newly built library, the redesign of the boulevard, the conversion of the E-Werk and the participation as a model city for the Fuss e.V. project "Besseres Klima in Kommunen geht gut" ('Better climate in municipalities works well') are providing impetus for a new urban orientation. More attention could be given to the connection between the train station and the city centre: with barrier-free, pedestrian-friendly streetscapes, clear pathways and a restructuring of the traffic area.

Upgrading the key public spaces is an essential part of socially and ecologically sustainable urban development. By improving both functionality and design quality, and by strengthening connections with adjacent neighborhoods, the "Karree" can fulfil its connecting role within the urban structure. We ask: How can today's gaps and sub-areas be transformed into a coherent neighbourhood with a socially and ecologically viable future? How can fractures and voids be put to productive use? And how can the transformation of the "square" create a model for the medium-sized city of tomorrow?

The open space planning and urban design will be developed within the framework of the AIV-Schinkel Competition 2025/26.

#### Voraussetzungen

Master IUDD

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# Study project II Digtital Urban Design

# **Applied Research Methods**

# 118223501 Academic Skills

G. Nettelbladt Veranst. SWS: 2

Übung

Mi, wöch., 09:15 - 10:45, Bauhausstraße 7b - Seminarraumraum 004, 15.10.2025 - 04.02.2026

#### **Beschreibung**

This class introduces students to the world of urban studies, scientific research and practice. It provides an overview of the interdisciplinary field of urban studies and current debates. The module aims to equip students with a set of academic skills that enables them to gain a structured a sound understanding of the practices of social research. This encompasses carrying out a literature review, developing a research interest, formulating research questions and knowledge about how to design a research project, including relevant methods for data collection.

# engl. Beschreibung/ Kurzkommentar

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 wells 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.

# Voraussetzungen

Participation: Readings, active participation, development and presentation of own research interest

Assignment: first-step research proposal: write a 2 page (Arial 11, line spacing 1) research proposal introducing your research interest, situating it in the relevant literature and developing a suitable research question, via Moodle.

# Leistungsnachweis

Participation + presentations in class: 40%

Assignment first-step research proposal: 60%

# **Digital Design Methods**

# **Digital Design Methods Advanced**

# **Integrated Urban Design**

#### Urban Sociology

# 1724415 Urban Sociology (Introduction)

F. Eckardt Veranst. SWS: 2

Vorlesung

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Mo, wöch., 13:30 - 15:00, Marienstraße 13 C - Hörsaal C, 13.10.2025 - 01.12.2025 Mo, wöch., 13:30 - 15:00, Marienstraße 13 C - Hörsaal A, 08.12.2025 - 02.02.2026

#### **Beschreibung**

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 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.

Richtet sich an: EU, IPP/Urban Heritage, MediaArchitecture; IUDD, MA Urbanistik, MA Fine Arts/Public Space, MA Architektur (Erasmus)

Termine: montags, 13.30-15.00 Uhr

Erster Termin: 13.10.2025

Dozent: Prof. Dr. Frank Eckardt

Erwartete Teilnehmer: 50

Maximale Teilnehmer: 60

Unterrichtssprache: Englisch

# **Programme of study RUP (Internship)**

# 118223705 Reflective Urban Practice: Model Project Preparatory Course

P. Schmidt Veranst. SWS: 2

Seminar

Mo, wöch., 15:15 - 16:45, Bauhausstraße 7b - Seminarraumraum 004, 20.10.2025 - 02.02.2026

#### Beschreibung

The Model Project Preparatory Course "Reflective Urban Practice" introduces course participants to different fields of activity and occupation in urban development and interdisciplinary approaches in applied research, practice and administration. With the diverse professional fields existing in the field of urban development and design participants are prepared to evaluate and reflect their own existing experience for their future application at a Model Project Partner.

This seminar in the 1st semester of IUDD serves as preparation for the application and placement phase (2nd semester) prior to the Model Project (3rd semester) which students start in autumn next year. The "Model Project" (24 CP) is the praxis semester (3rd semester) of IUDD 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

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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 annual Model Project Forum to get first-hand impressions from different experiences of last semester's Model Projects.

Participation is mandatory and only for first semester master students of Integrated Urban Development and Design - Reflective Urban Practice (IUDD-RUP).

The seminar takes place in presence with individual consultations online. The class requires continuous and active participation.

#### engl. Beschreibung/ Kurzkommentar

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.

#### Bemerkung

target group: Master Integrated Urban Development and Design (IUDD - RUP) 1st Semester

language: English

registration: through BISON online platform

# Programme of study IAM (Study abroad)

#### **Elective Modules**

# 118220205 Real Estate Development - Lecture

S. Eipper Veranst. SWS: 2

Vorlesung

Di, wöch., 13:30 - 15:00, Marienstraße 9 - Seminarraum 103, 21.10.2025 - 03.02.2026

# Beschreibung

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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.

# 118220206 Real Estate Development - Seminar

#### S. Eipper, K. Brüske

Seminar

Di, wöch., 15:15 - 16:45, Marienstraße 9 - Seminarraum 103, 21.10.2025 - 03.02.2026

#### Beschreibung

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.

Veranst. SWS:

2

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.

# 119223901 European Cities

D. Zupan Veranst. SWS: 2

Vorlesung

Di, wöch., 15:15 - 16:45, Coudraystraße 13 A - Hörsaal 2, 14.10.2025 - 03.02.2026

# Beschreibung

What is the "European City"? How did cities in Europe develop historically? And what are trends and challenges that characterize contemporary European urban development?

By engaging with these questions, the lecture provides basic and interdisciplinary knowledge on European urban development. It discusses central concepts related to the "European City", provides an overview of foundational research, and explores new strands in urban studies. It illustrates these developments with case studies from different European cities. In the first part, the lecture reflects on the history of urban development and the material and immaterial urban heritage in European cities, and engages with the analytical and normative dimensions of the "European City". In the second part, it confronts the conceptual and theoretical concepts with current socio-

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spatial, economic and political developments in different European cities, such as neoliberal urbanism, processes of postsocialist urban transformation or the construction of heritage.

#### Bemerkung

In-Class

Starting: 14.10.2025

#### Leistungsnachweis

Written Test / Grade

# 125220501 Denkmalpflege

#### D. Spiegel, S. Zabel

Veranst. SWS: Vorlesung

Di, wöch., 17:00 - 18:30, Steubenstraße 6, Haus F - Hörsaal K20, 14.10.2025 - 03.02.2026 Di, Einzel, 17:00 - 18:30, Steubenstraße 6, Haus F - Hörsaal K20, 28.10.2025 - 28.10.2025 Mo, Einzel, 13:30 - 15:00, 23.02.2026 - 23.02.2026

#### Beschreibung

Die Vorlesung vermittelt eine für das Studium der Architektur spezifische Einführung in das komplexe Themenfeld der Denkmalpflege und vermittelt einen Überblick über Inhalte, Aufgaben, Methoden und Institutionen des Fachs. Mit der Vermittlung denkmaltheoretischen Grundlagenwissens dient sie der Kompetenzbildung innerhalb des in der Architekturausbildung immer wichtiger werdenden Bauens im Bestand. Ziel ist, ein Verständnis für das komplexe Zusammenspiel der unterschiedlichen Parameter zu erzeugen, die für das Bauen im Bestand relevant sind.

2

In der Vorlesung werden u.a. folgende Themen betrachtet: Geschichte der Denkmalpflege; Denkmalbegriffe und -werte; Gesetze und Institutionen, städtebauliche Denkmalpflege; denkmalpflegerische Methoden von der Befundanalyse und -dokumentation über Konservierung und Reparatur bis zur Umnutzung und Erweiterung; architektonische Interventionen im Denkmal; inter- und transnationale sowie interkulturelle Aspekte der Denkmalpflege. Darüber hinaus werden aktuelle Fragen, Debatten und Ansätze diskutiert.

#### **Bemerkung**

Informationen zur 1. Vorlesung finden Sie unter dem Hyperlink.

# Leistungsnachweis

schriftliche Prüfung

### 125223501 Moving Architectures

#### E. Vittu Veranst. SWS: 2

Blockveranstaltung

Fr, Einzel, 11:00 - 17:00, Belvederer Allee 5 - Seminarraum 008, 24.10.2025 - 24.10.2025 Fr, Einzel, 11:00 - 17:00, Belvederer Allee 5 - Seminarraum 008, 21.11.2025 - 21.11.2025 Fr, Einzel, 11:00 - 17:00, Belvederer Allee 5 - Seminarraum 008, 23.01.2026 - 23.01.2026

# Beschreibung

Stand 20 10 2025 Seite 9 von 11 This interdisciplinary seminar explores how the history of architecture and urbanism can be approached through the lenses of mobility, impermanence, and material flow. Focusing on portable buildings, extractive infrastructures, and construction on unstable terrains, we will rethink the built environment beyond permanence. Participants will engage critically with readings and guest lectures, while developing a writing practice around an "unsettling" museum object of their choice. The course is open to students interested in mobility, mediation, and transience in architectural history, both within and beyond Europe.

#### Bemerkung

Teacher: Dr. Ksenia Litvinenko

Time and location Fridays: 24 October, 21 November, 23 January. 11:00–17:00. Location TBA. Each participant will also receive one 30-minute online consultation with the lecturer.

# 2909020 Macroscopic Transport Modelling

# K. McFarland, L. Thiebes, U. Plank-Wiedenbeck, J. Uhlmann Veranst. SWS: 4

Integrierte Vorlesung

Di, wöch., 11:00 - 15:00, Marienstraße 7 B - Projektraum 302

Di, wöch., 11:00 - 15:00, Marienstraße 7 B - PC-Pool Luna-red

#### **Beschreibung**

# Part A: Principles in Transport Modelling

We will consider the transport modelling framework, incl. methodologies, procedures, data-requirements (e.g. land-use-data, behavioral data, opertional and network data). The standard 4-step modelling approach and related methods and algorithms will be discussed.

# **Part B: Transport Model Development**

We get known both sides of transport modelling - demand side (passenger) and supply side (e.g. network, transport modes). Modelling from infrastructure modelling, traffic generation, traffic destinations, mode choice and route choice calculation methods are considered

# **Part C: Transport Model Quality**

The value of a transport model is determined by its quality. Quality evaluation is based on model validation and calibration. Which are suitable empirical data (e.g. meaning of traffic counts) and how can they be used for quality evaluation?

# **Part D: Transport Model Application**

We discuss the meaning of transport models for other disciplines like transport planning. Within selected use cases model setup and configuration are considered according to different planning tasks.

#### Part E: Practical Exercises

Practical exercises on transport modelling are provided in parallel to the lectures. Within these guided exercises macroscopic transport modelling software (PTV Visum) will be appllied. Application of learned methodological approach(es) and critical reflection of the model outputs. Perspectives in transport modelling. Student presentation.

# Voraussetzungen

Teilnehmeranzahl auf 15 begrenzt. Bestätigung der Professur Verkehrssystemplanung notwendig

Bewerbung bis 14.10.2025 ausschließlich per Mail an vsp@bauing.uni-weimar.de. Bitte kurz den fachlichen Hintergrund und die Motivation für die Kursteilnahme schildern.

Notwendig: Vorkenntnisse in der Modellierung/ Simulation und Verkehrsplanung und-technik. **Sollten keine Vorkenntnisse im Bereich der Verkehrsplanung vorliegen muss zuerst der Kurs "International Case Studies in Transportation" belegt werden.** 

#### Leistungsnachweis

Part 1: based on section E

Project work and presentation, english, 50%

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# IMPORTANT: Submission of the project is a prerequsite for participation in exam.

Part 2: based on sections A, B, C, D:

Written exam (120 Min), english, 50%

#### 909021 **International Case Studies in Transportation**

#### M. Rünker, T. Feddersen, U. Plank-Wiedenbeck, J. Uhlmann Veranst. SWS: 4

Vorlesung

Fr, Einzel, 09:15 - 16:45, Infotermin / Information event Schwanseestr. 13, Raum/room 2.02, 10.10.2025 - 10.10.2025

Fr, Einzel, 09:15 - 16:45, Schwanseestr. 13, Raum/room 2.02, 17.10.2025 - 17.10.2025

Fr, Einzel, 09:15 - 16:45, Schwanseestr. 13, Raum/room 2.02, 21.11.2025 - 21.11.2025

Fr, Einzel, 09:15 - 16:45, Schwanseestr. 13, Raum/room 2.02, 19.12.2025 - 19.12.2025 Fr, Einzel, 09:15 - 16:45, Schwanseestr. 13, Raum/room 2.02, 09.01.2026 - 09.01.2026

Fr, Einzel, 09:15 - 16:45, Prüfung / examSchwanseestr. 13, Raum/room 2.02, 16.01.2026 - 16.01.2026

#### Beschreibung

Wie gehen wir mit Herausforderungen im Bereich Mobilität und Verkehr um, z. B. mit den Auswirkungen auf die Klimakrise, mit Problemen des zunehmenden Gegensatzes zwischen ländlichen und städtischen Gebieten oder mit Fragen der Migration und räumlichen Beschränkungen? Wir glauben, dass dies nur durch die Zusammenführung von Fachwissen aus verschiedenen akademischen und praktischen Bereichen erreicht werden kann. Das Seminar stellt daher Positionen aus einer ausgeprägt interdisziplinären Position vor, die Verkehrs- und Stadtplanung mit Medienwissenschaft, Medienkunst, Journalismus und Sozialwissenschaft verbindet. Wir arbeiten in unseren Sitzungen mit Text-, Video-, Audiomaterial und erschließen uns dabei ganz unvoreingenommen Themen aus den Bereichen Mobilität und Verkehr. Die ausgewählten Beispiele bieten Perspektive, die über den europäischen Kontext hinausgehen.

Der Kurs ist in zwei Teile gegliedert: Zunächst werden die Studierenden gebeten, an einem Online-Angebot teilzunehmen, das eine Einführung in die Grundlagen der Verkehrsplanung bietet. Anschließend arbeiten wir in einem intermedialen Seminar im Plenum sowie in Gruppen. Eine Vorbereitung auf die jeweiligen Sitzungen wird vorausgesetzt.

#### Bemerkung

Das Seminar findet als Blockveranstaltung an den oben aufgeführten Terminen statt. Der Einführungskurs zur nachhaltigen Verkehrsplanung findet online statt (self-paced). Der Kurs ist auf 15 Teilnehmende begrenzt.

Informationsveranstaltung am 10.10.2025 um 9:00 Uhr in der Schwanseestr. 13, Raum 2.02 Einsendeschluss für das Motivationsschreiben: 12.10.2025 Die Zusage für den Kurs wird am 14.10.2025 verschickt.

#### Voraussetzungen

Bitte beachten Sie, dass eine kurze Bewerbung mit Darstellung Ihrer Motivation und Ihres akademischen Hintergrunds erforderlich ist. Die Modalitäten werden auf der Informationsveranstaltung näher erläutert.

# Leistungsnachweis

Mündliche Prüfung in Form einer Präsentation ODER eines Essays

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