

## Data Sheet of International Graduate's Course, Tongji CAUP

### 同济大学建筑与城市规划学院研究生国际课程(英语)登记表

Course Code 课程编号	2010375	Department 所在系(√)	A	P	L	D	院登记号 CAUP Code	
Instructor(Title) 主讲教师(职称)	Prof. Jieming Zhu	Other Teachers 合作教师	Other Teachers					
	朱介鸣 教授							
课程中文名	城市研究方法							
Course Name (E)	Research Methodologies for Urban Studies							
Form of Teaching 教学形式 (√)	Lectures 讲课	Design Studio 设计课	Seminar 研讨课		Internship 实践课		Others 其他	
	√							
Total Hours 总学时数	18	Hours per Week 周课时	2		Weeks 教学周数		9	
Semester 春季或秋季学期	Fall 秋季	Tongji Credits 同济 学分数	1					
Brief Course Description 课程简述 (中英文)								
<p>The course is composed of 8 lectures covering basic methodologies (qualitative and quantitative) and various urban issues (social, economic and ecological). The last lecture is led by students' reviews of research works.</p> <p>城市研究的方法由 8 讲组成, 各涉及城市研究的基本方法(定性、定量)和城市研究的不同方向(社会、经济、生态等)。第 9 讲由学生根据所学习的方法分析研究案例。</p>								
Course Syllabus 课程大纲 (中英文)								
<p><b>1) Research methodology for urban studies</b> ZHU Jieming A typical research for dissertation needs to go through several stages from identification of research questions to literature review, conceptual framework, empirical work, data analyses and finalization. It will be elaborated by cases and published works.</p>								
<p><b>2) The basics of quantitative methods for urban studies and planning</b> ZHU Wei It introduces the basic quantitative methods that are widely used in urban studies and planning, including data type, sampling, descriptive statistics, hypothesis testing, parametric and non-parametric analyses, correlation analysis, and regression analysis. Students are expected to know the concepts, theories and principles underlying these methods and the appropriate application of each method.</p>								
<p><b>3) Case study as a research method in the urban context of China</b> YANG Chen Case study is a useful research method as it enables researchers to observe the urban phenomena and analyze the interaction between space and users at a micro level. As an alternative to quantitative methods, qualitative case study can serve as a practical solution when a big sample population or</p>								

district is difficult to obtain. It introduces the method by a fieldwork in a working-class neighborhood in Shanghai, showing how the built environment and the inhabitants' lifestyle have been changed by a social/spatial mutation which is called residential mobility.

#### **4) Integrating sociological analysis into spatial analysis**

YANG Fan

It introduces some basic analysis processes used in urban studies and planning, integrating statistical data related to social attributes of urban inhabitants and spatial fabric of living and working places in the built environment. The lecture includes cases studies of neighborhoods in Shanghai, and students are expected to know the concepts, aspects and meaning hidden in the spatial performance analysis.

#### **5) Advanced spatial reasoning**

YANG Fan

It provides an understanding of urban spaces by personal experience. Spatial reasoning is about individual behaviors, habits and other factors. Conversely, planning always imposes impacts on people's life. Reasoning process in relation to spatial design will be expected from students.

#### **6) Research methods of planning analysis for urban climate**

HSIEH Chun-Ming

It provides scientific theories and spatial planning methods as a tool for urban climate related research issues. The lecture will cover climate change, urban climate map, wind corridor, urban heat island, and recent research topics from various scales (human, building, community and urban scale).

#### **7) A case study of quantitative methodology: the built environment and chronic diseases**

LI Qing

The built environment influences the public's health, particularly in relation to chronic diseases. The research attempts to explore the influencing mechanism of how the built environment affects personal health by applying the quantitative methodology with the case study of a residential compound.

#### **8) How to write a good dissertation for the DMD program of urban planning?**

ZHUO Jian

It provides a general guideline for the international master students who intend to write for the first time a dissertation in the field of urban and rural planning. It aims to help students coming from the design background to understand the academic criteria of a dissertation; to explain what the essential components of a dissertation are; to let students know how dissertations are evaluated; to point out the common problems; and to clarify the administrative steps towards application for a Tongji degree.

#### **9) Critique of research proposals**

ZHU Jieming

Students will present their research proposals for the dissertations and these will be evaluated and analyzed by the lecturer. Students are expected to learn from the critique of research proposals.