Data Sheet of International Graduate’s Course CAUP, Tongji

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

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<th>Course Code</th>
<th>课程编号</th>
<th>Department 所在系(√)</th>
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Instructor(Title) 主讲教师(职称)
Prof. ZHUO Jian 卓健 教授
Other Teachers 合作教师
Prof Jean-Marc OFFNER
Prof Vincent KAUFMANN

课程中文名 中国城市交通与规划问题选讲

Course Name (E) Urban Mobility and Transport: Emerging Issues and Planning Practices in China

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 34
Hours per Week 周课时 2
Weeks 教学周数 17

Semester 春季或秋季学期
Fall 秋季

Tongji Credits 同济学分数 2

Brief Course Description 课程简述（中英文）

With a focus on the metropolitan area of Shanghai, this course provides a historical and theoretical overview of these transformations and consequences in Chinese urban areas. It will be developed in three parts. Initially we will survey the recent history and current state of the urban transportation system in China to identify its problems and benefits. Next, we will analyze the interrelationships between the transportation system and urban spatial development patterns under Chinese political/institutional context. Finally, we will explore the relative policies, from general political orientations to detailed proposed solutions, including taxation policies, consumer regulation, traffic management and public investment strategies. Although the course is not primarily practice-oriented, it will address the common planning tools in land use and transportation planning.

课程选取上海为案例,对中国城镇化地区中的机动性发展演变及其带来的后果进行理论上的概述。主要包括三个方面:首先，回顾近代以来城市交通系统的发展和演变，以及对城市发展的作用与影响;其次，考察中国城市背景下城市机动性系统与城市空间发展模式之间的相互关系;最后，分析总体的政策导向和具体的应对措施，包括税收政策、消费调控、交通管理和公共投资策略等。课程虽然不是以规划实践为导向的，但将介绍相关的交通规划和土地利用规划工具。

Brief Schedule and Topics 课程进度简表（中英文）

Module 1: Introduction & outlook
Week 1 Introduction and overview
绪论与课程介绍

Week 2 The urban development of Shanghai, a brief review from XX century to nowadays
廿世纪以来上海城市建设与交通发展回顾

Week 3 Introduction of Urban Planning system in China
中国的城市规划体系概述
Module 2: Modes of Urban Transportation

Week 6 Modes of transportation 1: public transit
城市交通的系统 1: 公共交通

Week 7 Modes of transportation 2: cycling and walking
城市交通系统 2: 非机动车交通

Week 8 Modes of transportation 3: automobile
城市交通系统 3: 小汽车交通管制

Module 3: Urban transportation & Land-use

Week 12 Influences of land use on travel: density, jobs-housing balance and spatial sprawl
土地使用对交通出行的影响：职住平衡和城市扩张

Week 13 Policies: The Public Transit Priority (PTP) strategy and TOD
公交优先发展战略和 TOD 发展模式

Week 14 [invited speaker] Transport and built environment: streets, mixed uses and urban design (TBC)
特邀讲座：交通和建成环境：街道和城市设计

Week 15 [Site investigation 2]: The TOD development in Shanghai
实地调查 2：上海的 TOD 建设发展状况及存在问题

Week 16 Students’ presentation of site investigation
学生调查结果汇报讨论

Week 17 Conclusion
课程总结

Course Syllabus 课程大纲（中英文）
The evolution of contemporary society is characterized by two major trends, the lasting urbanization and the growth of urban mobility. The interrelationships between these transformations have been made known by many studies: The improvement of transportation has effectively contributed to the concentration of peoples, goods and information in the space; in return, the ongoing urbanization in form of metropolization has induced more and more demands of mobility.

In China, the current transformations in the urban areas are even more brutal. The rapid spatial expansion is coming with the construction of transportation infrastructures and the introduction of new vehicles. When the urban mobility has been clearly considered as an essential factor for the local dynamics and attractability, the spatial, environmental and social consequences it has generated should not be ignored.

With a focus on the metropolitan area of Shanghai, this course provides a historical and theoretical overview of these transformations and consequences in Chinese urban areas. It will be developed in three parts. Initially we will survey the recent history and current state of the urban transportation system in China to identify its problems and benefits. Next, we will analyze the interrelationships between the transportation system and urban spatial development patterns under Chinese political/institutional context. Finally, we will explore the relative policies, from general political orientations to detailed proposed solutions, including taxation policies, consumer regulation, traffic management and public investment strategies. Although the course is not primarily practice-oriented, it will address the common planning tools in land use and transportation planning.

Students are required to:
(1) understand the general principles and theories about the planning, design, construction, organization and management of different systems of urban transportations, such as non-motorized mode, automobile and public transit;
(2) grasp the basic procedure and method of comprehensive urban transportation planning;
(3) get a preliminary idea of the methodology of research concerning urban transportation issues, especially how to analyze the relevant problems from the point of view of urban planner.

Assignments & Grading 作业和评分
The course will be run partly in lecture and partly in seminar format. During both parts, students are expected to participate actively.

During the course of the semester, students will undertake a teamwork of site investigation and prepare a collective presentation of the findings in the investigation.

Students must complete one five-page case study or analytical essay. The final product will be due at the beginning of the last class.

The site investigation and presentation will account for 30% of the grade; in-class participation and presentations,
学生应保证出勤并积极参与课堂讨论，平时表现占总成绩 20%；
学生应完成 1 次分组现场调查并在课堂汇报并提交汇报 PPT，这一工作占总成绩 30%；
课程结束后，学生应提交一篇与城市交通相关的课程论文，论文质量占总成绩 50%。

Main Reference Books 主要参考书目
A01-05/ general 基础理论

B01-06/ Mode of transportation 交通模式

C01-04/ Planning & Transportation 交通与城市规划

D01-05/ Transportation policies 交通政策