

Data Sheet of International Undergraduate's Courses, Tongji CAUP

同济大学建筑与城市规划学院本科生国际课程(英语)登记表

Course Code 课程编号	020541	Department 所在系(✓)	A	P	L	D	院登记号 CAUP Code	
Instructor(Titl e) 主讲教师(职称)	Lecturer CHEN Jing 陈静 讲师	Other Teachers 合作教师	Associate. Prof. ZHOU Xiangpin 周向频 副教授					
课程中文名	生态与文化							
Course Name (E)	Ecology and Culture							
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	Spring and autumn 春季和秋季	(Tongji) Credits (同济)学分数	1.5		Launching Time 课程首开年月		2020.3	
Brief Course Description 课程简述 (中英文)								
<p>《生态与文化》是一门面向全校本科生的通识选修课程。本课程借助生态与文化的热点问题介绍生态多样性与文化多样性的基本概念、基本原理、基本理论和最新研究趋势，通过系列讲座、研讨、现场调研、作业展示等理论与实践环节，使工科学生获得必要的生态与文化基础知识，引导学生从文化延续的视角传承自然生态保护，理解生态与文化的多样性和复杂性，为其在未来相关领域的学习和研究进行启蒙。</p> <p>< Ecology and culture > is a general elective course for undergraduates. This course states the basic concepts, principles, theories and the latest research trends of ecological and cultural diversity through the hot issues in the field of ecology and culture. Through a series of lectures, seminars, field research, and assignment exhibition, this courses leads engineering students to obtain the basic knowledge of ecology and culture, and guide students to pass on nature conservation from the perspective of cultural continuation, and help students to establish a correct view of nature, world outlook, values and scientific development, and understand the complexity of ecological and cultural diversity, which will enlighten them for future study and research in related fields.</p>								
Brief Schedule and Topics 课程进度简表 (中英文)								
课程课内学时为34学时，其中课堂内教学时间30学时，现场教学时间（基地与场地参观，案例参观与调研）4学时。原则分配时间如下： 具体时间进度分配参考如下：								
Lecture 1	Introduction: Ecology and culture 导论：生态与文化							2 hours
Lecture 2	Ecology in Cities: Man-Made Physical Conditions 城市生态环境							2 hours
Lecture 3	Urban Climate 城市气候 Hydrology of Urban Environments 城市环境水文							2 hours
Lecture 4	Urban Soils - Characterization, Pollution, and Relevance in Urban Ecosystems 城市土壤：特征、污染及城市生态系统相关性							2 hours
Lecture 5	Ecology in Cities: Patterns of Urban Biodiversity 城市生物多样性模式							2 hours

	Composition and Diversity of Urban Vegetation 城市植被的组成和多样性	
Lecture 6	Biodiversity in Small Designed Landscapes 小型景观中的生物多样性 实地调研与体验	2 hours
Lecture 7	Plant identification on the Campus or community park 实地调研与体验：同济校园/社区公园内植物认知	2 hours
Lecture 8	Biodiversity and cultural diversity 生物多样性与文化多样性	2 hours
Lecture 9	Plant culture 1 植物文化	2 hours
Lecture 10	Plant culture 2 植物文化	2 hours
Lecture 11	Presentation of assignment 1: Hometown traditional ecological wisdom 作业 1 汇报与讲评：家乡传统生态智慧	2 hours
Lecture 12	Traditional knowledge in biodiversity conservation 传统知识与生物多样性保护 1	2 hours
Lecture 13	Traditional knowledge in biodiversity conservation 传统知识与生物多样性保护 2	2 hours
Lecture 14	The Role of Ecosystem Services in Contemporary Urban Planning 生态系统服务在当代城市规划中的作用	2 hours
Lecture 15	Urban Ecology and Human Health 城市生态学和人类健康	2 hours
Lecture 16	Ecosystems, Ecosystem Services, and Social Systems in Urban Landscapes 城市景观中的生态系统、生态系统服务和社会系统	2 hours
Lecture 17	Linking Social and Ecological Systems 社会和生态系统	2 hours

Course Syllabus 课程大纲 (中英文)

课程教学目标1：课程培养学生综合系统的生态与文化思维，了解人居环境的多样性和复杂性。

课程教学目标2：课程借助植物将生态与民族及地域文化糅合，掌握生态与文化研究的基本概念和方法。

课程教学目标3：通过理论与实践交叉教学，引导学生构建生态与文化的知识体系。

课程教学目标 4：培养学生直接运用英语思考专业问题的能力。

Course objective 1: The course aims to cultivate students' comprehensive and systematic thinking of ecology and culture, and to understand the diversity and complexity of human settlements.

Course objective 2: The course helps students to integrate ecology with national and regional cultures by means of plants, and master the basic concepts and methods of ecological and cultural studies.

Course objective 3: This course gradually guides students to build the theoretical framework of ecology and culture based on theory and practice teaching.

Course objective 4: This course will develop students' ability to think profession directly in English.

本课程通过灵活多样的课程内容设置和大胆创新的课堂讨论和课程作业展的方式，激发工科学生对生态与文化的兴趣，提高学生对生态与文化的认识，引导学生以人为本，重新认识、思考和探索自己所学专业与可持续发展的关系。

Through flexible and diverse course content setting and innovative classroom discussion and coursework exhibitions, this course stimulates engineering students' interest in ecology and culture, enhances students' understanding of ecology and culture, and guides students to be people-oriented, re-recognizing, thinking and explore the relationship between their major and sustainable development.

Main Reference Books 主要参考书目

Design with Nature	Ian L. McHarg	Wiley	1995/1	047111460X	
Urban Ecology: Patterns, Processes, and Applications	Jari Niemelä Jürgen H. Breuste, et al.	OUP Oxford	2011/1	0199643954	
Nature by Design: People, Natural Process, and Ecological Restoration	Higgs E.	MIT Press	2003/1	0262582260	
Toward an Urban Ecology: SCAPE / Landscape Architecture	Kate Orff	The Monacelli Press	2016/1	1580934366	
Ecological Urbanism	Mohsen Mostafavi, Gareth Doherty.	Lars Müller	2016/4	3037784679	
民族文化与生物多样性保护	裴盛基, 龙春林	中国林业出版社	2008	9787503851957	