

## 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	2010235	Department 所在系(√)	A	P	L	D	院登记号 CAUP Code	
Instructor(Title) 主讲教师(职称)	Prof. WANG Yuncai 王云才 教授	Other Teachers 合作教师			√			
课程中文名	景观生态规划原理与方法							
Course Name (E)	Principle and methods of landscape ecological planning							
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	36	Hours per Week 周课时	2		Weeks 教学周数		18	
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)								
<p>Based on the theory of landscape ecology, human ecosystem and landscape language, taking the natural space , culture space and total human ecosystem as the targets, This course aims to discuss the basic feature, the pattern language of eco-space and its spatial scaling and nested structure, then through the typical cases study, it will help us to understand the principle and method of landscape planning and design.</p> <p>课程以自然、人生态空间及整体人文生态空间为对象，以景观生态学、人文生态学和景观的语言理论为基础，探讨生态空间的基本特征、生态空间的图式语言体系以及空间尺度转换及嵌套机理，在此基础上通过典型案例的讨论，探讨生态空间规划设计的基本原理和方法。</p>								
Brief Schedule and Topics 课程进度简表 (中英文)								
<ul style="list-style-type: none"> <li>● Module 1 第 1 周: 课程导论 Week 1 : Course Introduction</li>   <li>● Module 2 第 2-4 周: 生态空间感知的 C-3P 体系 Week 2 -4: C-3P system of eco-space: perception and analysis</li>   <li>● Module 3 第 5-7 周: 基本理论 (景观生态理论、人文生态理论和景观的语言理论) Week 5 -8: Basic theory (landscape ecology, human ecosystem and landscape language)</li>   <li>● Module 4</li> </ul>								

第 8-11 周：生态空间的图式语言体系（水体生境、生态界面、生态网络、土地形态，等）  
Week 5 -8: pattern language of Eco-space(water habitat, ecological interface, eco-network and form of land-use, etc.)

● Module 5

第 12-14 周：案例研讨（大尺度生态规划案例、中小尺度生态规划设计）

Week 13 -15: cases study (Planning and design cases study at Mac. Meso and Mic scale)

● Module 6

第 15-18 周：撰写课程论文

Week 15 -18: course paper

Course Syllabus 课程大纲（中英文）

**COURSE DESCRIPTION**

Based on the theory of landscape ecology, human ecosystem and landscape language, taking the natural spaces , culture space and total human ecosystem as the targets, This course aims to discuss the basic feature, the pattern language of eco-space and its spatial scaling and nested structure, then through the typical cases study, it will help us to understand the principle and method of landscape planning and design.

**课程介绍**

课程以自然、人生态空间及整体人文生态空间为对象，以景观生态学、人文生态学和景观的语言理论为基础，探讨生态空间的基本特征、生态空间的图式语言体系以及空间尺度转换及嵌套机理，在此基础上通过典型案例的讨论，探讨生态空间规划设计的基本原理和方法。

**REQUIREMENTS**

Students taking this course are required to attend lectures delivered by course instructor and invited speakers; readings, prepared discussion. At the end of the semester, each student is required to finish one case study paper。 During the semester each students should have two times presentations in the class individually or cooperate with others,

**课程要求**

选修该课的学生需按时参加授课教师和特邀演讲人所作讲座，同时进行相关文献阅读和讨论。在课程学习过程中，在图式语言和案例讨论阶段，每个每位学生需选择一个案例独立研究，分别以 PPT 的形式在课堂上公开汇报；在学期末完成一篇课程论文。论文最后的提交日期是秋季学期结束。

**SCHEDULE OF READINGS AND LECTURE TOPICS**

**文献阅读及讲座主题安排**

● Module 1

**Week 1 :Course Introduction**

## 第一周:课程导论

### ● Module 2

第 2-4 周: 生态空间感知的 C-3P 体系

#### Week 2 -4: C-3P system of eco-space: perception and analysis

Yuncaï WANG, Dong LV: Research on the construction of regional ecological network in multiple spatial-scales context:A case study of wolong lake eco-region in Shengyang. Environment,Energy and Biotechnology . 2013

Yuncaï WANG: The Framework of Biodiversity for Landscape Architecture,landscape Architecture, 2014(1)

Simon Bell. Landscape: pattern, perception and process, E & FN Spon, 1999

### ● Module 3

第 5-7 周: 基本理论 (景观生态理论、人文生态理论和景观的语言理论)

#### Week 5 -8: Basic theory (landscape ecology, human ecosystem and landscape language)

Yuncaï wang. Principle of landscape ecological planning, Chinese construction press, 2014(2 edition)

Forman TT. Landscape ecology, John Wily, New York, 1986

Frederick Steiner, human ecology: following nature's road, island Press, 2002

Anne Spirn, the language of landscape, New haven: Yale University press, 1998

### ● Module 4

第 8-11 周: 生态空间的图式语言体系 (水体生境、生态界面、生态网络、土地形态, 等)

#### Week 5 -8: pattern language of Eco-space (water habitat, ecological interface, eco-network and form of land-use, etc.)

Yuncaï WANG. The spatial pattern language of landscape ecological design, Chinese Landscape Architecture, 2011(9)

Yuncaï,WANG. The pattern language and its application of water habitat, Chinese Landscape Architecture, 2012(11)

Yuncaï WANG. The pattern language and its application of ecological interface, Chinese Landscape Architecture, 2012(11)

Yuncaï WANG. The progress and prospect on pattern language of traditional culture landscape space, journal of tongji University(social edition),2013(2)

Elizabeth BOUlts. Illustrated history of landscape design, New Jersey: John Wily, 2010

Christopher Alexander .A Pattern Language: Towns, Buildings, Construction, Oxford University Press Inc ,1978

### ● Module 5

第 12-14 周: 案例研讨 (大尺度生态规划案例、中小尺度生态规划设计)

#### Week 13 -15: cases study (Planning and design cases study at Mac. Meso and Mic scale)

Yuncaï WANG. Reviews on landscape ecological planning and design cases, Shanghai: Tongji University Press, 2013

### ● Module 6

**第 15-18 周：撰写课程论文**

**Week 15 -18: course paper**

Writing On topics such as : pattern language, ecological analysis, eco-design, living landscape, ecological restoration, landscape transformation, landscape regeneration, sustainable design

Main Reference Books 主要参考书目

Yuncai WANG. Reviews on landscape ecological planning and design cases, Shanghai: Tongji University Press, 2013

Yuncai wang. Principle of landscape ecological planning, Chinese construction press, 2014(2 edition)

Forman TT. Landscape ecology, John Wily, New York, 1986

Frederick Steiner, human ecology: following nature's road, island Press, 2002

Anne Spirn, the language of landscape, New haven: Yale University press, 1998