建筑学（全英语）2025 版留学生本科培养方案

（专业代码：082801　学制：五年　学位：工学学士）

1. 培养目标

建筑学专业旨在培养具备扎实理论知识和实践执业能力的未来建筑师。毕业生具备核心设计能力、掌握先进技术与工程知识、拥有深厚的历史与理论素养、具有社会责任感与可持续思维，成为适应经济建设高质量发展的需求，从事建筑设计、管理与研究的高素质人才。

2. 毕业要求

学生在完成 5 年学习后，应具备以下能力：

a) 批判性思维和表现力：具备建立抽象关系和理解思想影响力的能力，能够基于对多种理论、社会、政治、经济、文化和环境背景的研究和分析。包括使用更广泛媒介来思考建筑，如写作、调查技能、演讲、绘画和模型制作。

b) 建筑实践、运行管理、技术开发和科学研究的综合能力：能从设计、系统、材料、技术等多方面理解建筑的复杂性，并能够将这些理解应用到解决复杂建筑工程问题中。

c) 人文艺术素养、思想品质及社会责任感：能在建筑设计实践中综合考虑社会、文化、健康、安全、法律及环境等因素。

d) 协作力、领导力和发展潜力：能从客户、社会和公众的利益出发，以合法、合乎道德和批判的方式进行管理、倡导和行动，具备高效的沟通能力和开阔的国际视野，具有自主拓展、终身学习的能力。

3. 学分修读要求

a) 本专业学生应在规定的修业年限内修满 180.5 学分，并通过 HSK4 级，方可毕业。

b) 符合毕业条件的，授予工科学士学位。

c) 应使用英文撰写毕业设计或毕业论文，并提供中文摘要。

课程类别		学分	课时	备注
必修	理论	134.5	2426	包括 30 实验学时和 672 实践学时
	实验	1	24	
	实践	24	34 周	
选修		20	320	

4. 课程设置

本专业课程通常为期五年，含 10 个春秋学期和 4 个夏季小学期。内容包括通识教育和专业教育，其中专业教育课程分为专业基础课、专业必修课和专业选修课。

第一学年

第 1 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
通识教育课程	2091199	初级汉语口语（2-1）	4.0	64	64			
	2092199	初级汉语精读（2-1）	4.0	64	64			
	2092099	道德与法律	1.0	16	16			
	PLC522911010	新生研讨课	1.0	16	16			
学科基础课程	SCC10111040	高等数学	4.0	64	64			
	MEE323811030	画法几何与阴影透视	3.0	64	64			
	PLC522311011	建筑学概论	2.0	36	24			12
	PLC521812101	建筑设计基础（2-1）	4.5	96	24			72
	SHL422312100	素描（2-1）	1.5	28	16			12

第 2 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
通识教育课程	2091199	初级汉语口语（2-2）	4.0	64	64			
	2092199	初级汉语精读（2-2）	4.0	64	64			
学科基础	PLC521812101	建筑设计基础（2-2）	4.5	96	24			72

课程	SHL422312100	素描（2-2）	1.5	28	16			12
	PLC529711015	建筑 BIM 基础	1.5	28	16			12

夏季学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
学科基础课程	SHL421811020	素描实习	2.0	2 周				2 周
	PLC525911020	城市建筑认知实习	2.0	2 周				2 周

第二学年

第 3 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
通识教育课程	2090599	中级汉语（2-1）	4.0	64	64			
	2090499	中国概况（2-1）	3.0	48	48			
	CST110311025	程序设计（Python）	2.5	40	40		(32)	
学科基础课程	SHL421212100	色彩（2-1）	1.5	28	16			12
必修课程	PLC521616100	建筑设计（6-1）	4.5	96	24			72
	PLC133611015	建筑材料	1.5	26	20	6		
	PLC521011020	公共建筑设计原理	2.0	32	32			
	PLC321111040	建筑力学	4.0	64	64			

第 4 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
通识教育课程	2090599	中级汉语（2-2）	4.0	64	64			
	2090499	中国概况（2-2）	3.0	48	48			
	CST110611015	大学计算机	1.5	24	24		(24)	
学科基础课程	SHL421212100	色彩（2-2）	1.5	28	16			12
必修课程	PLC521616100	建筑设计（6-2）	4.5	96	24			72
	PLC531311030	世界建筑史	3.0	48	48			
	PLC522212101	建筑物理（2-1）	2.0	36	24			12
	PLC531711005	建筑热工实验	0.5	12		12		
选修课程	PLC522022101	建筑数字技术（2-1）	1.5	28	16	12		

夏季学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
必修课程	PLC530311020	国际教育课程	2.0	32	32			
选修课程	PLC521523100	建筑快速设计（3-1） Quick Design (3-1)	1.0	1 周				1 周

第三学年

第 5 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
通识教育课程	2090699	高级汉语（2-1）	4.0	64	64			
必修课程	PLC521616300	建筑设计（6-3）	4.5	96	24			72
	PLC523011030	中国建筑史	2.0	36	36			
	PLC522212101	建筑物理（2-2）	2.0	36	24			12
	PLC530011005	建筑声光实验	0.5	12		12		
	PLC521212101	建筑构造（2-1）	2.0	36	24	6		6
	PLC529311010	当代建筑思潮	1.0	16	16			
选修课程	PLC522022101	建筑数字技术（2-2）	1.5	28	16	12		
	PLC520321011	场地设计	2.0	32	32			

第 6 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
通识教育课程	2090699	高级汉语（2-2）	4.0	64	64			
学科	PLC520911020	工程概论	2.0	32	32			

基础课程								
必修课程	PLC521616400	建筑设计（6-4）	4.5	96	24			72
	PLC520611020	城乡规划原理	2.0	32	32			
	PLC521212201	建筑构造（2-2）	2.0	36	24	6		6
	PLC123311030	建筑结构	3.0	48	48			
选修课程	PLC520821010	风景园林设计原理	1.0	20	8			12
	PLC521421010	建筑结构选型	1.0	2 周				2 周
	CST110921020	人工智能基础	2.0	36	24		12	
	PLC510221020	绿色建筑概论	2.0	32	32			

夏季学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
必修课程	PLC533511020	历史建筑测绘与数字化保护实训	2.0	2 周				2 周
选修课程	PLC521523100	建筑快速设计（3-2）	1.0	1 周				1 周

第四学年

第 7 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
必修课程	PLC521616500	建筑设计（6-5）	4.5	96	24			72
	PLC523111020	住区规划与居住区设计原理	2.0	32	32			
	PLC562111010	人工智能与建筑设计	1.0	16	16			
选修课程	PLC522621010	室内设计原理	1.0	16	16			
	SHL420321020	建筑表现技巧	2.0	32	32			
	PLC521121010	环境心理学概论	1.0	16	16			
	PLC420721020	建筑环境学	2.0	32	32			
	PLC123521020	建筑设备工程	2.0	32	30			

第 8 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
必修课程	PLC520511015	城市设计原理	1.5	24	24			
	PLC521616600	建筑设计（6-6）	4.5	96	24			72
	SEM130521020	建筑经济	2.0	32	32			
选修课程	PLC525821010	前策划与后评估	1.0	16	16			
	PLC530621010	建筑遗产保护概论	1.0	16	16			
	PLC41021020	建筑节能技术	2.0	32	32			

夏季学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
选修课程	PLC521523100	建筑快速设计（3-3）	1.0	1 周				

第五学年

第 9 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
必修课程	PLC522511080	生产实习	8.0	12 周				12 周

第 10 学期

课程类别	课程编码	课程名称	学分	课时	课时安排			
					讲授	实验	上机	实践
必修课程	PLC520111080	毕业设计	10.0	16 周				16 周

Programme of Architecture 2025 for Oversea Students

(Code: 080281 Schooling Length: Five years Degree: Bachelor of Engineering)

1. Educational Objectives

The architecture major aims to train future architects with solid theoretical knowledge and practical practice skills. Graduates have core design capabilities, advanced technology and engineering knowledge, profound historical and theoretical literacy, a sense of social responsibility and sustainable thinking, and become high-quality talents engaged in architectural design, management and research to meet the needs of high-quality development of economic construction.

2. Expectations for Graduating

e) Critical Thinking and Representation: Graduates must have the ability to build abstract relationships and understand the impact of ideas based on research and analysis of multiple theoretical, social, political, economic, cultural, and environmental contexts. This ability includes facility with the wider range of media used to think about architecture including writing, investigative skills, speaking, drawing and model making.

f) Integrated Building Practices, Technical Skills, and Knowledge: Graduates are called upon to comprehend the technical aspects of design, systems, and materials and be able to apply that comprehension to their services.

g) Humanistic and artistic literacy, ideological quality and social responsibility: Graduates should be able to comprehensively consider social, cultural, health, safety, legal and environmental factors in architectural and engineering practice.

h) Collaboration, leadership and development potentials: Graduates should be able to manage, advocate and act in a legal, ethical and critical manner in the interests of clients, society and the public, with effective communication skills and a broad international perspective, and the ability to develop independently and for lifelong learning.

3. Credit Requirements

d) Students shall obtain the above required xxx credits together, and pass HSK-4 in order to graduate.

e) Those who meet the graduation requirements will be awarded a Bachelor of Engineering.

f) Final project/Thesis shall be written in English while an abstract in Chinese is also required.

Category		Course Credits	Credit Hours	Remarks
Compulsory modules	Lecture	134.5	2426	Including 30 CHs of experiment and 672 CHs of practice
	Experiment	1	24	
	Practice	24	34 weeks	
Optional modules		20	320	

4. Curriculum

This undergraduate programme is normally five years in length, including 10 fall/spring semesters and 4 summer terms. It incorporates both a general and professional education. The professional education courses consist of basic courses, compulsory courses and optional courses.

Academic Year One

1st Semester (Fall)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
General education courses	2091199	Primary Oral Chinese (2-1)	4.0	64	64			
	2092199	Primary Chinese reading (2-1)	4.0	64	64			
	2092099	Moral Education and Law	1.0	16	16			
	PLC522911010	Freshman Seminar	1.0	16	16			
Basic courses	SCC10111040	Advanced Mathematics	4.0	64	64			
	MEE323811030	Engineering Drawing	3.0	64	64			
	PLC522311011	Introduction to Architecture	2.0	36	24			12
	PLC521812101	Basic Design (2-1)	4.5	96	24			72
	SHL422312100	Sketch (2-1)	1.5	28	16			12

2nd Semester (Spring)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
General education courses	2091199	Primary Oral Chinese (2-2)	4.0	64	64			
	2092199	Primary Chinese reading (2-2)	4.0	64	64			
Basic courses	PLC521812101	Basic Design (2-2)	4.5	96	24			72
	SHL422312100	Sketch (2-2)	1.5	28	16			12
	PLC529711015	Basic BIM	1.5	28	16			12
Compulsory courses	SHL423011010	Morphological Composition	1.0	16	16			
Optional courses	SCC120122200	Advanced Mathematics II	5.0	80	80			

Summer Term (S1)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Basic courses	SHL421811020	Sketch Practice	2.0	2 weeks				2 weeks
	PLC525911020	Cognition of Urban Architecture	2.0	2 weeks				2 weeks

Academic Year Two

3rd Semester (Fall)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
General education courses	2090599	Intermediate Chinese (2-1)	4.0	64	64			
	2090499	Survey of China (2-1)	3.0	48	48			
	CST110311025	Programming (Python)	2.5	40	40		(32)	
Basic courses	SHL421212100	Color (2-1)	1.5	28	16			12
Compulsory courses	PLC521616100	Design (6-1)	4.5	96	24			72
	PLC133611015	Building Materials	1.5	26	20	6		
	PLC521011020	Principles of Public Building Design	2.0	32	32			
	PLC321111040	Architectural Mechanics	4.0	64	64			

4th Semester (Spring)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
General education	2090599	Intermediate Chinese (2-2)	4.0	64	64			
	2090499	Survey of China (2-2)	3.0	48	48			

courses	CST110611015	Computer Technology	1.5	24	24		(24)	
Basic courses	SHL421212100	Color (2-2)	1.5	28	16			12
Compulsory courses	PLC521616100	Design (6-2)	4.5	96	24			72
	PLC531311030	History of World Architecture	3.0	48	48			
	PLC522212101	Architectural Physics (2-1)	2.0	36	24			12
	PLC531711005	Experiment of Architectural Thermal Engineering	0.5	12		12		
Optional courses	PLC522022101	Building Digital Technology (2-1)	1.5	28	16	12		

Summer Term (S2)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Compulsory courses	PLC530311020	International Education Project	2.0	32	32			
Optional courses	PLC521523100	Quick Design (3-1)	1.0	1 week				1 week

Academic Year Three

5th Semester (Fall)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
General education courses	2090699	Advanced Chinese (2-1)	4.0	64	64			
Compulsory courses	PLC521616300	Design (6-3)	4.5	96	24			72
	PLC523011030	History of Chinese Architecture	2.0	36	36			
	PLC522212101	Architectural Physics (2-2)	2.0	36	24			12
	PLC530011005	Experiments of Architectural Acoustics and Lighting	0.5	12		12		

	PLC521212101	Building Construction (2-1)	2.0	36	24	6		6
	PLC529311010	Contemporary Architectural Trends	1.0	16	16			
Optional courses	PLC522022101	Building Digital Technology (2-2)	1.5	28	16	12		
	PLC520321011	Site Design	2.0	32	32			

6th Semester (Spring)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
General education courses	2090699	Advanced Chinese (2-2)	4.0	64	64			
Basic courses	PLC520911020	Introduction to Engineering	2.0	32	32			
Compulsory courses	PLC521616400	Design (6-4)	4.5	96	24			72
	PLC520611020	Principles of Urban and Rural Planning	2.0	32	32			
	PLC521212201	Building Construction (2-2)	2.0	36	24	6		6
	PLC123311030	Building Structure	3.0	48	48			
Optional courses	PLC520821010	Principles of Landscape Design	1.0	20	8			12
	PLC521421010	Selection of Building Structure	1.0	2 weeks				2 weeks
	CST110921020	Fundamentals of Artificial Intelligence	2.0	36	24		12	
	PLC510221020	Introduction to Green Building	2.0	32	32			

Summer Term (S3)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Compulsory courses	PLC533511020	Historical Building Survey and Digital Preservation Practice	2.0	2 weeks				2 weeks
Optional courses	PLC521523100	Quick Design (3-2)	1.0	1 week				1 week

Academic Year Four

7th Semester (Fall)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Compulsory courses	PLC521616500	Design (6-5)	4.5	96	24			72
	PLC523111020	Residential District Planning and the Principles of Residential Building Design	2.0	32	32			
	PLC562111010	Artificial Intelligence and Architectural Design	1.0	16	16			
Optional courses	PLC522621010	Principles of Interior Design	1.0	16	16			
	SHL420321020	Architectural Expression	2.0	32	32			
	PLC521121010	Introduction to Environmental Psychology	1.0	16	16			
	PLC420721020	Built Environment	2.0	32	32			
	PLC123521020	Building Service Engineering	2.0	32	30			

8th Semester (Spring)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Compulsory courses	PLC520511015	Principles of Urban Design	1.5	24	24			
	PLC521616600	Design (6-6)	4.5	96	24			72
	SEM130521020	Engineering Economics	2.0	32	32			
Optional courses	PLC525821010	Pre-planning and Post-evaluation	1.0	16	16			
	PLC530621010	Introduction to Architectural Conservation	1.0	16	16			
	PLC41021020	Building Energy Saving	2.0	32	32			

		Technology						

Summer Term (S4)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Optional courses	PLC521523100	Quick Design (3-3)	1.0	1 weeks				

Academic Year Five

9th Semester (Fall)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Compulsory courses	PLC522511080	Professional Practice	8.0	12 weeks				12 weeks

10th Semester (Spring)

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours			
					Lecture	Experiment	Computer lab	Practice
Compulsory courses	PLC520111080	Final Design	10.0	16 weeks				16 weeks