

建筑学（全英语） 留学生本科培养方案

（专业代码：082801 学制：5年 学位：工学学士）

一、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，知华、友华、具备全球视野、能够参与国际交流与合作，成为适应经济建设高质量发展的需求，从事建筑设计、管理与研究的人才。

二、毕业要求及实现矩阵

毕业生应获得以下几方面的知识和能力：

1. 汉语毕业要求：学生毕业前须通过汉语水平考试（HSK）4级，具备基本的汉语听、说、读、写能力，能够适应在中国学习、生活及未来职业发展的语言需求。学生须完成以下指定课程并取得合格成绩：《中国概况（2-1）》《中国概况（2-2）》《初级汉语》《中级汉语》《高级汉语》。
2. 掌握建筑学基础理论、设计原理、工程技术、建筑历史与相关自然科学知识，能够用于理解和解决建筑学专业问题。
3. 具备建筑问题分析与研究能力，能够基于建筑学原理、场地条件、社会文化背景和技术条件，识别、分析并研究建筑与城市空间中的复杂问题。
4. 具备建筑设计解决方案与综合实践能力，能够针对建筑、城市与环境中的复杂问题提出设计方案，并综合考虑功能、技术、艺术、经济、文化、环境和可持续发展等因素。
5. 具备建筑数字技术、现代工具与人工智能应用能力，能够选择和使用建筑表达、数字建模、BIM、人工智能和相关现代工具，支持建筑设计、分析、表达和保护实践。
6. 具备社会责任、跨文化沟通、团队协作与终身学习能力，能够在建筑实践中理解社会、文化、健康、安全、法律、环境和职业责任。

毕业要求指标点分解与实现矩阵

毕业要求	指标点	课程
1. 建筑学基础知识与工程技术知识：能够掌握建筑学基础理论、设计原理、工程技术、建筑历史与相关自然科学知识，并用于理解和解决建筑学专业问题。	1.1 掌握数学、计算机与工程基础知识，能够用于建筑设计问题的基本表述与分析。	高等数学 / 程序设计 (Python) / 大学计算机 / 建筑力学
	1.2 掌握建筑学基本概念、设计基础和空间表达方法，能够进行建筑空间、形体和构成的基本训练。	新生研讨课 / 建筑学概论 / 画法几何与阴影透视 / 建筑设计基础 (2-1)/(2-2) / 素描 (2-1) / (2-2) / 色彩 (2-1) / (2-2)
	1.3 掌握建筑材料、结构、构造、物理环境、设备与节能等技术知识，并能用于建筑性能分析和设计判断。	建筑材料 / 建筑结构 / 建筑构造 (2-1) / (2-2) / 建筑物理 (2-1) / (2-2) / 建筑热工实验 / 建筑声光实验 / 建筑设备工程 / 建筑节能技术 / 建筑环境学
	1.4 掌握中外建筑历史、建筑理论与当代建筑思潮，能够理解建筑发展的文化背景与历史脉络。	世界建筑史 / 中国建筑史 / 当代建筑思潮 / 建筑遗产保护概论 / 历史建筑测绘与数字化保护实训
2. 建筑问题分析与研究能力：能够基于建筑学原理、场地条件、社会文化背景和技术条件，识别、分析并研究建筑与城市空间中的复杂问题。	2.1 能够进行场地、城市、建筑类型和使用需求的调查分析，并形成设计依据。	城市建筑认知实习 / 场地设计 / 公共建筑设计原理 / 城乡规划原理 / 住区规划与居住区设计原理 / 前策划与后评估
	2.2 能够结合建筑历史、文化、环境和行为因素，对建筑空间与城市环境进行分析和评价。	世界建筑史 / 中国建筑史 / 当代建筑思潮 / 环境心理学概论 / 城市设计原理 / 建筑遗产保护概论
	2.3 能够采用实验、测绘、模拟、数据分析等方法，对建筑性能、历史建筑保护和设计问题进行研究。	建筑热工实验 / 建筑声光实验 / 建筑物理 (2-1) / (2-2) / 建筑数字技术 (2-1) / (2-2) / 历史建筑测绘与数字化保护实训 / 毕业设计
3. 建筑设计解决方案与综合实践能力：能够针对建筑、城市与环境中的复杂问题提出设计方案，并综合考虑功能、技术、艺术、经济、文化、环境和可持续发展等因素。	3.1 掌握建筑设计的基本程序和方法，能够完成由基础训练到综合设计的连续性设计任务。	建筑设计基础 (2-1) / (2-2) / 建筑设计 (6-1) — 建筑设计 (6-6) / 建筑快速设计 (3-1) / (3-2) / (3-3) / 毕业设计
	3.2 能够针对公共建筑、住区、城市空间、室内空间和景观环境等不同对象开展设计分析与方案表达。	公共建筑设计原理 / 住区规划与居住区设计原理 / 城市设计原理 / 室内设计原理 / 风景园林设计原理 / 场地设计
	3.3 能够在设计方案中综合考虑结构、构造、设备、经济、绿色建筑和节能等因素，提高方案的综合可行性。	建筑结构 / 建筑结构选型 / 建筑构造 (2-1) / (2-2) / 建筑设备工程 / 建筑经济 / 绿色建筑概论 / 建筑节能技术 / 工程概论 / 毕业设计
	3.4 能够通过实习和毕业设计完成建筑设计、表达、技术整合与实践应用的综合训练。	生产实习 / 毕业设计 / 国际教育课程
4. 建筑数字技术、现代工具与人工智能应用能力：能够选择和和使用建筑表达、数字建模、BIM、人工智能和相关现代工具，支持建筑设计、分析、表达和保护实践。	4.1 能够使用制图、模型、建筑表现、BIM 和数字化设计工具，对设计意图和成果进行表达与推演。	画法几何与阴影透视 / 建筑 BIM 基础 / 建筑表现技巧 / 建筑数字技术 (2-1) / (2-2) / 建筑设计基础 (2-1)/(2-2) / 建筑设计 (6-1) — 建筑设计 (6-6)
	4.2 能够使用计算机、程序设计、人工智能和数字化技术开展建筑信息处理、辅助设计和方案分析。	大学计算机 / 程序设计 (Python) / 人工智能基础 / 人工智能与建筑设计 / 建筑数字技术 (2-1) / (2-2)
	4.3 能够运用数字化测绘、模拟和分析工具服务于建筑性能评价、历史建筑保护和综合设计研究。	建筑热工实验 / 建筑声光实验 / 历史建筑测绘与数字化保护实训 / 建筑遗产保护概论 / 毕业设计
5. 社会责任、跨文化沟通、团队协作与终身学习能力：能够在建筑实践中理解社会、文化、健康、安全、法律、环境和职业责任，具备跨文化沟通、团队协作和持续学习能力。	5.1 理解建筑实践与社会、文化、健康、安全、法律和环之间的关系，具备基本职业伦理和社会责任意识。	道德与法律 / 中国概况 (2-1) / (2-2) / 工程概论 / 建筑经济 / 绿色建筑概论 / 建筑节能技术 / 建筑遗产保护概论
	5.2 具备基础汉语能力和跨文化沟通能力，能够适应中文环境下的学习、实践与专业交流。	初级汉语口语 (2-1) / (2-2) / 初级汉语精读 (2-1) / (2-2) / 中级汉语 (2-1) / (2-2) / 高级汉语 (2-1) / (2-2) / 中国概况 (2-1) / (2-2) / 国际教育课程
	5.3 具备团队合作、职业实践、设计表达和终身学习能力，能够在建筑设计和实践过程中持续提升专业能力。	新生研讨课 / 城市建筑认知实习 / 建筑快速设计 (3-1) / (3-2) / (3-3) / 生产实习 / 毕业设计 / 历史建筑测绘与数字化保护实训

三、主干学科、专业核心课程

主干学科：建筑学。

专业核心课程：建筑设计基础、建筑设计、公共建筑设计原理、建筑构造、世界建筑史、建筑物理、中国建筑史、城乡规划原理、住区规划与居住区设计原理、城市设计原理、建筑 BIM 基础。

四、特色课程

（一）专业特色课程

专创融合课：建筑 BIM 基础、建筑设计（6-4）、历史建筑测绘与数字化保护实训

项目式课程：建筑设计（6-3）、建筑设计（6-6）、建筑快速设计（3-1）/（3-2）/（3-3）

“人工智能+”课程：人工智能基础、人工智能与建筑设计

产教融合课：生产实习

校企共建课程：

（二）在地国际化课程

全英语课程：除汉语类课程和中国概况等课程外，专业课程原则上采用英语授课；代表性课程包括建筑学概论、建筑设计基础、建筑设计、世界建筑史、中国建筑史、当代建筑思潮、建筑数字技术、人工智能与建筑设计、毕业设计等。

双语课程：初级汉语口语（2-1）/（2-2）、初级汉语精读（2-1）/（2-2）、中级汉语（2-1）/（2-2）、高级汉语（2-1）/（2-2）、中国概况（2-1）/（2-2）。

（三）其他课程

劳动教育实践课程：城市建筑认知实习、历史建筑测绘与数字化保护实训、生产实习

课程思政建设课程：道德与法律、中国概况、建筑学概论、城乡规划原理、建筑遗产保护概论

五、学分修读要求

本专业学生在学校规定的修业年限内需修满本培养方案课程 184.5 学分，并取得辅助培养计划要求的 10 学分，通过 HSK4 级，方可毕业；符合学士学位授予条件的，授予工学学士学位。本专业学生应使用英语撰写毕业论文，并提交汉语论文摘要。

授予学位类型：工学学士学位。

课程类别		学分	所占比例	理论学时	实践学时	学时合计										
通识教育课	通识必修课程	44.0	22.62%	704	0	704										
	通识选修课程	—	—	—	—	—										
专业基础课	大类基础课程	33.5	17.22%	344	216 学时+4 周	560 学时+4 周										
	专业必修课程	107.0	55.01%	960	558 学时+35 周	1518 学时+35 周										
	专业选修课程	—	—	—	—	—										
自主发展	辅助培养计划	10.0	5.14%	—	—	—										
	辅助学分	10.0	—	—	—	—										
毕业总学分（总学时）		194.5(2782 学时+39 周)	—	—	—	—										
实践教学（含课内实验）		76.4	39.27%	—	774 学时+39 周	774 学时+39 周										
集中性实践教学环节		28.0	14.40%	—	39 周	39 周										
学期修读学分建议	学期	1	2	S1	3	4	S2	5	6	S3	7	8	S4	9	10	说明
	必修课程	25	15.5	4	23	21.5	3	19.5	23.5	3	15.5	12	1	8	10	
	通识选修	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	专业选修	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	辅助培养计划															10 学分
	小计	25	15.5	4	23	21.5	3	19.5	23.5	3	15.5	12	1	8	10	不含辅助培养计划

六、课程设置

（说明：基础课程按照课程设置方案确定课程名称、学分、开课学期）

课程类别	课程模块	课程编码 (初稿只需填写开课单位代码)	课程名称	学分	课内学时					课外学时	学期	备注
					合计	讲授	实验	上机	实践			
通识教育课程	思政类课程	2092099	道德与法律 Moral Education and Law	1.0	16	16					1	
		2094199	中国概况 (2-1) Survey of China (2-1)	3.0	48	48					3	
		2095299	中国概况 (2-2) Survey of China (2-2)	3.0	48	48					4	
	基础素养课程	2091199	初级汉语口语 (2-1) Primary Oral Chinese (2-1)	4.0	64	64					1	
		2092199	初级汉语精读 (2-1) Primary Chinese Reading (2-1)	4.0	64	64					1	
		PLC5229110999	新生研讨课 Freshman Seminar	1.0	16	16					1	
		2091299	初级汉语口语 (2-2) Primary Oral Chinese (2-2)	4.0	64	64					2	
		2092299	初级汉语精读 (2-2) Primary Chinese Reading (2-2)	4.0	64	64					2	
		CST11031999	程序设计 (Python) Programming (Python)	2.5	40	40		32			3	
		2095199	中级汉语 (2-1) Intermediate Chinese (2-1)	4.0	64	64					3	
		2094299	中级汉语 (2-2) Intermediate Chinese (2-2)	4.0	64	64					4	
		0711399	大学计算机 Computer Technology	1.5	24	24		24			4	
		2090699	高级汉语 (2-1) Advanced Chinese (2-1)	4.0	64	64					5	
		2090699	高级汉语 (2-2) Advanced Chinese (2-2)	4.0	64	64					6	
专业教育	学科基础课程	SCC101110999	高等数学 Advanced Mathematics	4.0	64	64					1	
		MEE323811999	画法几何与阴影透视 Engineering Drawing	3.0	64	64					1	
		PLC522311999	建筑学概论 Introduction to Architecture	2.0	36	24			12		1	
		PLC521812999	建筑设计基础 (2-1) Basic Design (2-1)	4.5	96	24			72		1	
		SHL422312999	素描 (2-1) Sketch (2-1)	1.5	28	16			12		1	
		PLC521822999	建筑设计基础 (2-2) Basic Design (2-2)	4.5	96	24			72		2	
		SHL422322999	素描 (2-2) Sketch (2-2)	1.5	28	16			12		2	
		PLC5297110999	建筑 BIM 基础	1.5	28	16			12		2	

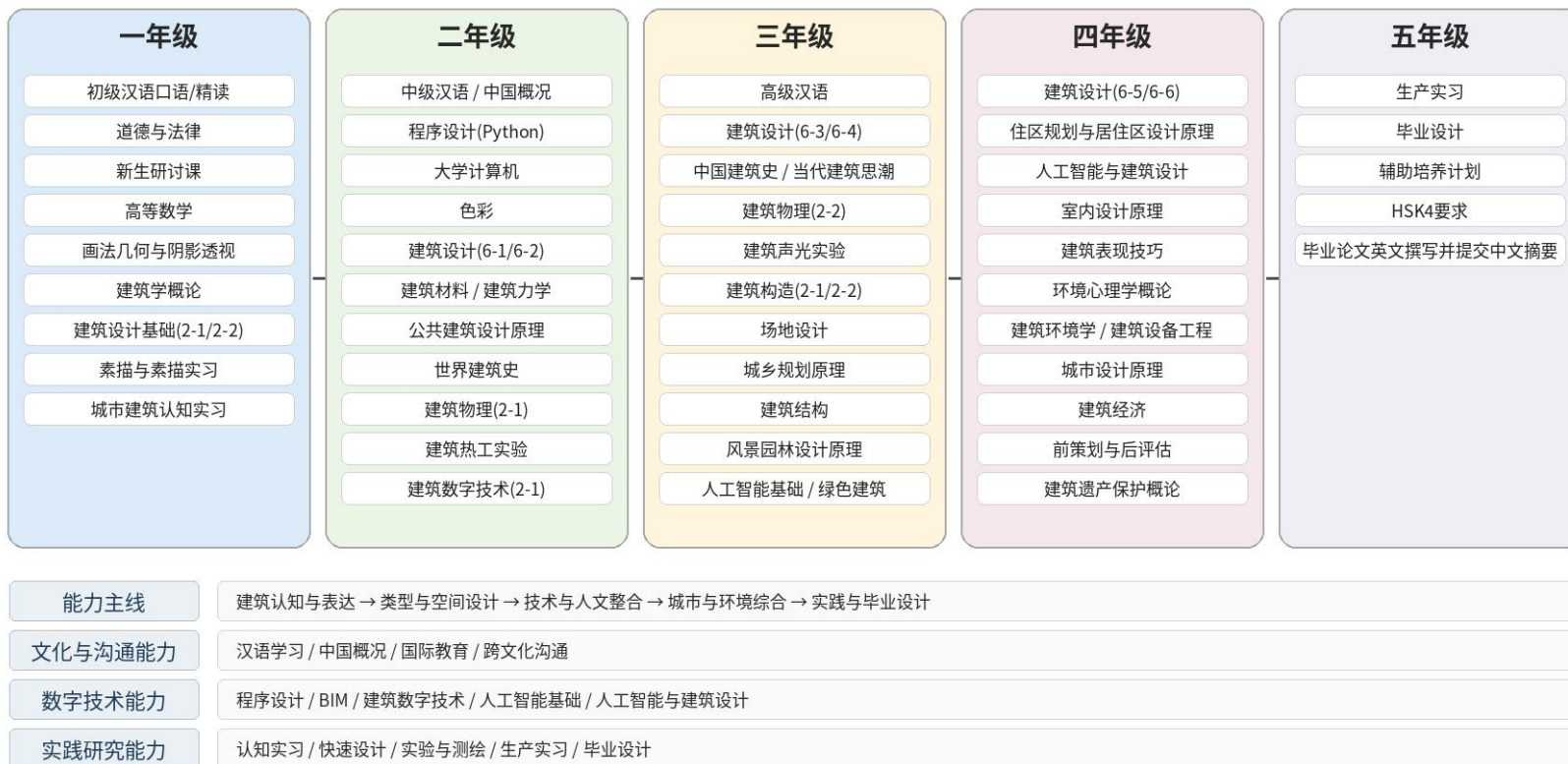
课程类别	课程模块	课程编码 (初稿只需填写开课单位代码)	课程名称	学分	课内学时					课外学时	学期	备注
					合计	讲授	实验	上机	实践			
专业必修课程			Basic BIM									
		SHL421811999	素描实习 Sketch Practice	2.0	2周				2周		S1	
		PLC525912999	城市建筑认知实习 Cognition of Urban Architecture	2.0	2周				2周		S1	
		SHL421211999	色彩(2-1) Color (2-1)	1.5	28	16			12		3	
		PLC321112999	建筑力学 Architectural Mechanics	4.0	64	64					3	
		SHL4212121999	色彩(2-2) Color (2-2)	1.5	28	16			12		4	
		PLC521661999	建筑设计(6-1) Design (6-1)	4.5	96	24			72		3	
		PLC133611999	建筑材料 Building Materials	1.5	26	20	6				3	
		PLC521011999	公共建筑设计原理 Principles of Public Building Design	2.0	32	32					3	
		PLC5216162099	建筑设计(6-2) Design (6-2)	4.5	96	24			72		4	
		PLC5313110399	世界建筑史 History of World Architecture	3.0	48	48					4	
		PLC5222121099	建筑物理(2-1) Architectural Physics (2-1)	2.0	36	24			12		4	
		PLC5317110099	建筑热工实验 Experiment of Architectural Thermal Engineering	0.5	12		12				4	
		PLC5220221099	建筑数字技术(2-1) Building Digital Technology (2-1)	1.5	28	16	12				4	
		PLC5303110299	国际教育课程 International Education Project	2.0	32	32					S2	
		PLC5215231099	建筑快速设计(3-1) Quick Design (3-1)	1.0	1周				1周		S2	
		PLC5216163099	建筑设计(6-3) Design (6-3)	4.5	96	24			72		5	
		PLC5230110399	中国建筑史 History of Chinese Architecture	2.0	36	36					5	
		PLC5222122099	建筑物理(2-2) Architectural Physics (2-2)	2.0	36	24			12		5	
		PLC5300110099	建筑声光实验 Experiments of Architectural Acoustics and Lighting	0.5	12		12				5	
		PLC5212121099	建筑构造(2-1) Building Construction (2-1)	2.0	36	24	6		6		5	
		PLC5293110199	当代建筑思潮 Contemporary Architectural Trends	1.0	16	16					5	
		PLC5220222099	建筑数字技术(2-2) Building Digital Technology (2-2)	1.5	28	16	12				5	
		PLC5203210199	场地设计 Site Design	2.0	32	32					5	
		PLC5209110299	工程概论 Introduction to Engineering	2.0	32	32					6	
		PLC5216164099	建筑设计(6-4) Design (6-4)	4.5	96	24			72		6	
		PLC5206110299	城乡规划原理 Principles of Urban and Rural Planning	2.0	32	32					6	
		PLC5212122099	建筑构造(2-2) Building Construction (2-2)	2.0	36	24	6		6		6	
		PLC1233110399	建筑结构 Building Structure	3.0	48	48					6	
		PLC5208210199	风景园林设计原理 Principles of Landscape Design	1.0	20	8			12		6	
		PLC5214210199	建筑结构选型 Selection of Building Structure	1.0	2周				2周		6	
		CST1109210299	人工智能基础 Fundamentals of Artificial Intelligence	2.0	36	24		12			6	
	PLC5102210299	绿色建筑概论	2.0	32	32					6		

课程类别	课程模块	课程编码 (初稿只需填写开课单位代码)	课程名称	学分	课内学时					课外学时	学期	备注
					合计	讲授	实验	上机	实践			
			Introduction to Green Building									
		PLC5335110099	历史建筑测绘与数字化保护实训 Historical Building Survey and Digital Preservation Practice	2.0	2周				2周		S3	
		PLC5215232099	建筑快速设计(3-2) Quick Design (3-2)	1.0	1周				1周		S3	
		PLC5216165099	建筑设计(6-5) Design (6-5)	4.5	96	24			72		7	
		PLC5231110299	住区规划与居住区设计原理 Residential District Planning and the Principles of Residential Building Design	2.0	32	32					7	
		PLC5621110199	人工智能与建筑设计 Artificial Intelligence and Architectural Design	1.0	16	16					7	
		PLC5226210199	室内设计原理 Principles of Interior Design	1.0	16	16					7	
		SHL4203210299	建筑表现技巧 Architectural Expression	2.0	32	32					7	
		PLC5211210199	环境心理学概论 Introduction to Environmental Psychology	1.0	16	16					7	
		PLC4207210299	建筑环境学 Built Environment	2.0	32	32					7	
		PLC1235210299	建筑设备工程 Building Service Engineering	2.0	32	32					7	
		PLC5205110199	城市设计原理 Principles of Urban Design	1.5	24	24					8	
		PLC5216166099	建筑设计(6-6) Design (6-6)	4.5	96	24			72		8	
		SEM1305210299	建筑经济 Engineering Economics	2.0	32	32					8	
		PLC5258210199	前策划与后评估 Pre-planning and Post-evaluation	1.0	16	16					8	
		PLC5306210199	建筑遗产保护概论 Introduction to Architectural Conservation	1.0	16	16					8	
		PLC4102102099	建筑节能技术 Building Energy Saving Technology	2.0	32	32					8	
		PLC5215233099	建筑快速设计(3-3) Quick Design (3-3)	1.0	1周				1周		S4	
		PLC5225110899	生产实习 Professional Practice	8.0	12周				12周		9	
		PLC5201110899	毕业设计 Final Design	10.0	16周				16周		10	
自主发展	辅助培养计划	—	辅助培养计划 Auxiliary Training Plan	≥10							1-10	按规定执行

七、课程体系拓扑图

建筑学（全英语）留学生本科课程体系

五年制 · 194.5学分（含辅助培养计划10学分）



注：课程名称、学分、学时和开课学期依据建筑学（全英语）留学生现有培养方案整理；课程内容不作调整。

Undergraduate Training Program for International Students Architecture (English-taught)

(Major Code: 082801 Length of Study: 5 Years Degree Awarded: Bachelor of Engineering)

I. Educational Objectives

This program aims to cultivate future architects with solid theoretical knowledge and practical professional competence. Graduates should have an understanding of China and goodwill towards it, be able to participate in international exchange and cooperation, are expected to possess core design ability, advanced technological and engineering knowledge, profound historical and theoretical literacy, social responsibility, and awareness of sustainable development, they will be able to meet the needs of high-quality economic and urban-rural development and engage in architectural design, management, and research.

II. Graduation Requirements and Achievement Matrix

Graduates should acquire the following knowledge and abilities:

1. Language Requirements: Students must pass the HSK Level 4 prior to graduation and possess basic Chinese listening, speaking, reading and writing skills, so as to meet the language requirements for their study, daily life and future career development in China. Students are required to complete the designated courses listed below and obtain passing grades: Survey of China (2-1), Survey of China (2-2), Elementary Chinese, Intermediate Chinese, Advanced Chinese.

2. Master foundational architectural knowledge and engineering technology, and apply architectural theories, design principles, engineering technology, architectural history, and relevant natural science knowledge to understand and solve architectural problems.

3 Develop architectural problem analysis and research ability, and identify, analyze, and study complex problems in architecture and urban space based on architectural principles, site conditions, socio-cultural contexts, and technical conditions.

4. Develop the ability to provide architectural design solutions and integrated practice, and propose design schemes for architectural, urban, and environmental problems with

integrated consideration of function, technology, art, economy, culture, environment, and sustainable development.

5. Develop the ability to use architectural digital technology, modern tools, and artificial intelligence, and select and use architectural representation, digital modeling, BIM, AI, and other modern tools to support design, analysis, expression, and conservation practice.

6. Develop social responsibility, cross-cultural communication, teamwork, and lifelong learning abilities, and understand social, cultural, health, safety, legal, environmental, and professional responsibilities in architectural practice.

Graduation Requirement Indicators and Achievement Matrix

Graduation Requirements	Performance Indicators	Courses
1. Foundational Architectural Knowledge and Engineering Technology: Master fundamental architectural theories, design principles, engineering technologies, architectural history, and relevant natural science knowledge, and apply them to understand and solve architectural problems.	1.1 Master basic knowledge of mathematics, computing, and engineering, and apply it to the basic description and analysis of architectural design problems.	Advanced Mathematics / Programming (Python) / Computer Technology / Architectural Mechanics
	1.2 Master basic architectural concepts, design foundations, and spatial representation methods, and conduct basic training in architectural space, form, and composition.	Freshman Seminar / Introduction to Architecture / Engineering Drawing / Basic Design (2-1)/(2-2) / Sketch (2-1)/(2-2) / Color (2-1)/(2-2)
	1.3 Master technical knowledge of building materials, structures, construction, physical environment, equipment, and energy saving, and apply it to building performance analysis and design judgment.	Building Materials / Building Structure / Building Construction (2-1)/(2-2) / Architectural Physics (2-1)/(2-2) / Experiment of Architectural Thermal Engineering / Experiments of Architectural Acoustics and Lighting / Building Service Engineering / Building Energy Saving Technology / Built Environment
	1.4 Master Chinese and world architectural history, architectural theory, and contemporary architectural trends, and understand the cultural and historical contexts of architectural development.	History of World Architecture / History of Chinese Architecture / Contemporary Architectural Trends / Introduction to Architectural Conservation / Historical Building Survey and Digital Preservation Practice
2. Architectural Problem Analysis and Research Ability: Identify, analyze, and research complex architectural and urban spatial problems based on architectural principles, site conditions, socio-cultural contexts, and technical conditions.	2.1 Conduct investigations and analyses of sites, cities, building types, and user needs, and form design bases.	Cognition of Urban Architecture / Site Design / Principles of Public Building Design / Principles of Urban and Rural Planning / Residential District Planning and the Principles of Residential Building Design / Pre-planning and Post-evaluation
	2.2 Analyze and evaluate architectural space and urban environments in relation to history, culture, environment, and human behavior.	History of World Architecture / History of Chinese Architecture / Contemporary Architectural Trends / Introduction to Environmental Psychology / Principles of Urban Design / Introduction to Architectural Conservation
	2.3 Use experiments, surveying, simulation, and data analysis to study building performance, historic building conservation, and design problems.	Experiment of Architectural Thermal Engineering / Experiments of Architectural Acoustics and Lighting / Architectural Physics (2-1)/(2-2) / Building Digital Technology (2-1)/(2-2) / Historical Building Survey and Digital Preservation Practice / Final Design
3. Architectural Design Solutions and Integrated Practice: Propose design solutions for complex architectural, urban, and environmental problems, with integrated consideration of function, technology, art, economy, culture, environment, and sustainable development.	3.1 Master basic architectural design procedures and methods, and complete continuous design tasks from foundation training to comprehensive design.	Basic Design (2-1)/(2-2) / Design (6-1)–Design (6-6) / Quick Design (3-1)/(3-2)/(3-3) / Final Design
	3.2 Conduct design analysis and expression for public buildings, residential districts, urban spaces, interiors, and landscape environments.	Principles of Public Building Design / Residential District Planning and the Principles of Residential Building Design / Principles of Urban Design / Principles of Interior Design / Principles of Landscape Design / Site Design
	3.3 Integrate structure, construction, equipment, economics, green building, and energy saving into design solutions to improve their comprehensive feasibility.	Building Structure / Selection of Building Structure / Building Construction (2-1)/(2-2) / Building Service Engineering / Engineering Economics / Introduction to Green Building / Building Energy Saving Technology / Introduction to Engineering / Final Design
	3.4 Complete integrated training in architectural design, representation, technical integration, and practical application through	Professional Practice / Final Design / International Education Project

Graduation Requirements	Performance Indicators	Courses
	practice and final design.	
4. Architectural Digital Technology, Modern Tools, and AI Application: Select and use architectural representation, digital modeling, BIM, AI, and related modern tools to support architectural design, analysis, expression, and conservation practice.	4.1 Use drawing, model-making, architectural expression, BIM, and digital design tools to express and develop design intentions and outcomes.	Engineering Drawing / Basic BIM / Architectural Expression / Building Digital Technology (2-1)/(2-2) / Basic Design (2-1)/(2-2) / Design (6-1)–Design (6-6)
	4.2 Use computing, programming, AI, and digital technologies for architectural information processing, assisted design, and scheme analysis.	Computer Technology / Programming (Python) / Fundamentals of Artificial Intelligence / Artificial Intelligence and Architectural Design / Building Digital Technology (2-1)/(2-2)
	4.3 Apply digital surveying, simulation, and analysis tools to building performance evaluation, historic building conservation, and integrated design research.	Experiment of Architectural Thermal Engineering / Experiments of Architectural Acoustics and Lighting / Historical Building Survey and Digital Preservation Practice / Introduction to Architectural Conservation / Final Design
5. Social Responsibility, Cross-cultural Communication, Teamwork, and Lifelong Learning: Understand social, cultural, health, safety, legal, environmental, and professional responsibilities in architectural practice, and develop cross-cultural communication, teamwork, and continuous learning abilities.	5.1 Understand the relationships between architectural practice and society, culture, health, safety, law, and environment, and develop basic professional ethics and social responsibility.	Moral Education and Law / Survey of China (2-1)/(2-2) / Introduction to Engineering / Engineering Economics / Introduction to Green Building / Building Energy Saving Technology / Introduction to Architectural Conservation
	5.2 Develop basic Chinese language ability and cross-cultural communication competence to adapt to learning, practice, and professional communication in a Chinese context.	Primary Oral Chinese (2-1)/(2-2) / Primary Chinese Reading (2-1)/(2-2) / Intermediate Chinese (2-1)/(2-2) / Advanced Chinese (2-1)/(2-2) / Survey of China (2-1)/(2-2) / International Education Project
	5.3 Develop teamwork, professional practice, design expression, and lifelong learning abilities, and continuously improve professional competence in architectural design and practice.	Freshman Seminar / Cognition of Urban Architecture / Quick Design (3-1)/(3-2)/(3-3) / Professional Practice / Final Design / Historical Building Survey and Digital Preservation Practice

III. Main Disciplines and Core Courses

Main Discipline: Architecture.

Core Courses: Basic Design, Design, Principles of Public Building Design, Building Construction, History of World Architecture, Architectural Physics, History of Chinese Architecture, Principles of Urban and Rural Planning, Residential District Planning and the Principles of Residential Building Design, Principles of Urban Design, Basic BIM.

IV. Featured Courses

1. Specialized Featured Courses

Innovation and entrepreneurship integrated courses: Basic BIM, Design (6-4), Historical Building Survey and Digital Preservation Practice

Project-based courses: Design (6-3), Design (6-6), Quick Design (3-1)/(3-2)/(3-3)

“Artificial Intelligence +” courses: Fundamentals of Artificial Intelligence, Artificial Intelligence and Architectural Design

Industry-education integration course: Professional Practice

University-enterprise co-developed course:

2. Localized International Courses

Fully English-taught courses: Except for Chinese language courses and Survey of China,

major courses are generally taught in English. Representative courses include Introduction to Architecture, Basic Design, Design, History of World Architecture, History of Chinese Architecture, Contemporary Architectural Trends, Building Digital Technology, Artificial Intelligence and Architectural Design, and Final Design.

Bilingual courses: Primary Oral Chinese (2-1)/(2-2), Primary Chinese Reading (2-1)/(2-2), Intermediate Chinese (2-1)/(2-2), Advanced Chinese (2-1)/(2-2), Survey of China (2-1)/(2-2).

3. Other Courses

Labor education practice courses: Cognition of Urban Architecture, Historical Building Survey and Digital Preservation Practice, Professional Practice

Courses for curriculum-based ideological and political education: Moral Education and Law, Survey of China, Introduction to Architecture, Principles of Urban and Rural Planning, Introduction to Architectural Conservation

V. Credit Requirements

Students are required to complete 184.5 credits from this training program within the prescribed period of study, obtain 10 credits from the auxiliary training plan, and pass HSK Level 4 before graduation. Students meeting the requirements for the bachelor's degree will be awarded a Bachelor of Engineering degree. The thesis shall be written in English with a Chinese abstract.

Degree Awarded: Bachelor of Engineering.

Course Category		Credits		Percentage		Theoretical Hours		Practical Hours		Total Hours						
General Education Courses	General Required Courses	44.0		22.62%		704		0		704						
	General Elective Courses	—		—												
Major Foundation Courses	Discipline Foundation Courses	33.5		17.22%		344		216 hours + 4 weeks		560 hours + 4 weeks						
	Major Required Courses	107.0		55.01%		960		558 hours + 35 weeks		1518 hours + 35 weeks						
	Major Elective Courses	—		—												
Independent Development	Auxiliary Training Plan	10.0		5.14%												
	Auxiliary training program	—		—												
Total Graduation Credits (Total Hours)		194.5 (2782 hours + 39 weeks)														
Practical Teaching (including in-class experiments)		76.4		39.27%		—		774 hours + 39 weeks		774 hours + 39 weeks						
Intensive Practical Teaching Components		28.0		14.40%		—		39 weeks		39 weeks						
Recommended Credits	Category	1	2	S1	3	4	S2	5	6	S3	7	8	S4	9	10	Note
	Required Courses	25	15.5	4	23	21.5	3	19.5	23.5	3	15.5	12	1	8	10	
	General Electives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Course Category					Credits		Percentage			Theoretical Hours			Practical Hours			Total Hours
Credits by Semester	Major Electives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Auxiliary Training Plan															10 credits
	Subtotal	25	15.5	4	23	21.5	3	19.5	23.5	3	15.5	12	1	8	10	Excluding auxiliary training credits

VI. Curriculum Structure

(Note: Foundation courses shall follow the curriculum plan regarding course names, credits, and semester offerings.)

Course Category	Course Module	Course Code (初稿只需填写 开课单位代码)	Course Name	Credits	In-Class Hours					Extra curricular Hours	Semester	Remarks
					Total Hours	Lecture	Experiment	Computer Lab	Practice			
General Education Courses	Ideological and Political Courses	2092099	Moral Education and Law 道德与法律	1.0	16	16					1	
		2094199	Survey of China (2-1) 中国概况 (2-1)	3.0	48	48					3	
		2095299	Survey of China (2-2) 中国概况 (2-2)	3.0	48	48					4	
	Basic Literacy Courses	2091199	Primary Oral Chinese (2-1) 初级汉语口语 (2-1)	4.0	64	64					1	
		2092199	Primary Chinese Reading (2-1) 初级汉语精读 (2-1)	4.0	64	64					1	
		PLC522911099	Freshman Seminar 新生研讨课	1.0	16	16					1	
		2091299	Primary Oral Chinese (2-2) 初级汉语口语 (2-2)	4.0	64	64					2	
		2092299	Primary Chinese Reading (2-2) 初级汉语精读 (2-2)	4.0	64	64					2	
		CST11031199	Programming (Python) 程序设计 (Python)	2.5	40	40			(32)		3	
		2095199	Intermediate Chinese (2-1) 中级汉语 (2-1)	4.0	64	64					3	
		2094299	Intermediate Chinese (2-2) 中级汉语 (2-2)	4.0	64	64					4	
		0711399	Computer Technology 大学计算机	1.5	24	24			(24)		4	
		2090699	Advanced Chinese (2-1) 高级汉语 (2-1)	4.0	64	64					5	
2090699	Advanced Chinese (2-2) 高级汉语 (2-2)	4.0	64	64					6			
Professional Education	Discipline Foundation Courses	SCC10111099	Advanced Mathematics 高等数学	4.0	64	64					1	
		MEE32381199	Engineering Drawing 画法几何与阴影透视	3.0	64	64					1	
		PLC52231199	Introduction to Architecture 建筑学概论	2.0	36	24			12		1	
		PLC52181299	Basic Design (2-1) 建筑设计基础 (2-1)	4.5	96	24			72		1	
		SHL42231299	Sketch (2-1) 素描 (2-1)	1.5	28	16			12		1	
		PLC52182299	Basic Design (2-2) 建筑设计基础 (2-2)	4.5	96	24			72		2	
		SHL42232299	Sketch (2-2) 素描 (2-2)	1.5	28	16			12		2	
		PLC529711099	Basic BIM 建筑 BIM 基础	1.5	28	16			12		2	
		SHL42181199	Sketch Practice 素描实习	2.0	2周				2周		S1	
		PLC52591299	Cognition of Urban Architecture 城市建筑认知实习	2.0	2周				2周		S1	
		SHL42121199	Color (2-1) 色彩 (2-1)	1.5	28	16			12		3	
		PLC32111299	Architectural Mechanics 建筑力学	4.0	64	64					3	
	SHL421212199	Color (2-2) 色彩 (2-2)	1.5	28	16			12		4		
	Major Required Courses	PLC52166199	Design (6-1) 建筑设计 (6-1)	4.5	96	24			72		3	
		PLC13361199	Building Materials 建筑材料	1.5	26	20	6				3	
		PLC52101199	Principles of Public Building Design 公共建筑设计原理	2.0	32	32					3	
PLC5216162099		Design (6-2) 建筑设计 (6-2)	4.5	96	24			72		4		

Course Category	Course Module	Course Code (初稿只需填写开课单位代码)	Course Name	Credits	In-Class Hours					Extra-curricular Hours	Semester	Remarks
					Total Hours	Lecture	Experiment	Computer Lab	Practice			
		PLC5313110399	History of World Architecture 世界建筑史	3.0	48	48					4	
		PLC5222121099	Architectural Physics (2-1) 建筑物理 (2-1)	2.0	36	24		12			4	
		PLC5317110099	Experiment of Architectural Thermal Engineering 建筑热工实验	0.5	12		12				4	
		PLC5220221099	Building Digital Technology (2-1) 建筑数字技术 (2-1)	1.5	28	16	12				4	
		PLC5303110299	International Education Project 国际教育课程	2.0	32	32					S2	
		PLC5215231099	Quick Design (3-1) 建筑快速设计 (3-1)	1.0	1周				1周		S2	
		PLC5216163099	Design (6-3) 建筑设计 (6-3)	4.5	96	24			72		5	
		PLC5230110399	History of Chinese Architecture 中国建筑史	2.0	36	36					5	
		PLC5222122099	Architectural Physics (2-2) 建筑物理 (2-2)	2.0	36	24		12			5	
		PLC5300110099	Experiments of Architectural Acoustics and Lighting 建筑声光实验	0.5	12		12				5	
		PLC5212121099	Building Construction (2-1) 建筑构造 (2-1)	2.0	36	24	6		6		5	
		PLC5293110199	Contemporary Architectural Trends 当代建筑思潮	1.0	16	16					5	
		PLC5220222099	Building Digital Technology (2-2) 建筑数字技术 (2-2)	1.5	28	16	12				5	
		PLC5203210199	Site Design 场地设计	2.0	32	32					5	
		PLC5209110299	Introduction to Engineering 工程概论	2.0	32	32					6	
		PLC5216164099	Design (6-4) 建筑设计 (6-4)	4.5	96	24			72		6	
		PLC5206110299	Principles of Urban and Rural Planning 城乡规划原理	2.0	32	32					6	
		PLC5212122099	Building Construction (2-2) 建筑构造 (2-2)	2.0	36	24	6		6		6	
		PLC1233110399	Building Structure 建筑结构	3.0	48	48					6	
		PLC5208210199	Principles of Landscape Design 风景园林设计原理	1.0	20	8			12		6	
		PLC5214210199	Selection of Building Structure 建筑结构选型	1.0	2周				2周		6	
		CST1109210299	Fundamentals of Artificial Intelligence 人工智能基础	2.0	36	24		12			6	
		PLC5102210299	Introduction to Green Building 绿色建筑概论	2.0	32	32					6	
		PLC5335110099	Historical Building Survey and Digital Preservation Practice 历史建筑测绘与数字化保护实训	2.0	2周				2周		S3	
		PLC5215232099	Quick Design (3-2) 建筑快速设计 (3-2)	1.0	1周				1周		S3	
		PLC5216165099	Design (6-5) 建筑设计 (6-5)	4.5	96	24			72		7	
		PLC5231110299	Residential District Planning and the Principles of Residential Building Design 住区规划与居住区设计原理	2.0	32	32					7	
		PLC5621110199	Artificial Intelligence and Architectural Design 人工智能与建筑设计	1.0	16	16					7	
		PLC5226210199	Principles of Interior Design 室内设计原理	1.0	16	16					7	

Course Category	Course Module	Course Code (初稿只需填写开课单位代码)	Course Name	Credits	In-Class Hours					Extra curricular Hours	Semester	Remarks
					Total Hours	Lecture	Experiment	Computer Lab	Practice			
		SHL4203210299	Architectural Expression 建筑表现技巧	2.0	32	32					7	
		PLC5211210199	Introduction to Environmental Psychology 环境心理学概论	1.0	16	16					7	
		PLC4207210299	Built Environment 建筑环境学	2.0	32	32					7	
		PLC1235210299	Building Service Engineering 建筑设备工程	2.0	32	32					7	
		PLC5205110199	Principles of Urban Design 城市设计原理	1.5	24	24					8	
		PLC5216166099	Design (6-6) 建筑设计 (6-6)	4.5	96	24				72	8	
		SEM1305210299	Engineering Economics 建筑经济	2.0	32	32					8	
		PLC5258210199	Pre-planning and Post-evaluation 前策划与后评估	1.0	16	16					8	
		PLC5306210199	Introduction to Architectural Conservation 建筑遗产保护概论	1.0	16	16					8	
		PLC4102102099	Building Energy Saving Technology 建筑节能技术	2.0	32	32					8	
		PLC5215233099	Quick Design (3-3) 建筑快速设计 (3-3)	1.0	1周					1周	S4	
		PLC5225110899	Professional Practice 生产实习	8.0	12周					12周	9	
		PLC5201110899	Final Design 毕业设计	10.0	16周					16周	10	
Independent Development	Auxiliary Training Plan	—	Auxiliary Training Plan 辅助培养计划	≥10						1-10	As required	