

建筑学专业培养方案

Undergraduate Program of Architecture

I. 专业介绍 Introduction

建筑学是研究建筑及人居环境问题的一门跨工程技术和人文艺术的综合性学科。西南交通大学建筑学专业为国家首批一流专业，也是全国首批“卓越工程师”培养专业。我校建筑学专业以国家经济建设和社会需求为引领，贯彻习近平新时代中国特色社会主义思想，以继承与创新、交叉与融合为理念，围绕建筑学教育目标要求，依托学校优势，以“卓越化、国际化、研究型”为核心，持续建设成为特色鲜明的一流专业。

Architecture is a comprehensive discipline that spans both engineering technology and humanities, focusing on the study of architecture and the issues related to human habitation environments. The architecture program at Southwest Jiaotong University is one of the first-class programs recognized by the nation and is also among the initial batch of programs cultivating "outstanding engineers" on a national level. Guided by the needs of national economic development and social progress, our architecture program aligns with Xi Jinping's thought on socialism with Chinese characteristics for a new era. It embraces the principles of inheritance and innovation, cross-disciplinary integration, and is centered around the goals of architectural education. Leveraging the strengths of the university, the program is dedicated to becoming an exceptional, internationally oriented, research-focused field with distinct characteristics.

专业代码：082801

Program Code: 082801

专业名称：建筑学

Program Name: Architecture

II. 培养目标 Objectives

本培养方案适应国家发展和社会主义建设的需要，以人才培养为中心，实现德、智、体、美、劳全面发展。围绕建筑学职业教育目标要求，以通识教育基础、

建筑学科基础以及建筑学专业基础、专业课程和实践环节、多元化跨学科课程构建教学体系，造就基本功扎实、知识面宽、综合素质高、具有创新精神和实践能力的高素质创新型行业中坚人才。

The program is designed to meet the needs of national development and socialist construction, with talent cultivation at its core, aiming to achieve comprehensive development of students' moral, intellectual and fitness level, labour skills, as well as in their appreciation of aesthetics. Centered around the objectives of vocational education in architecture, the program constructs a teaching framework that encompasses general education foundations, fundamental architectural knowledge, specialized architecture expertise, professional courses, practical components, and diverse interdisciplinary subjects. This framework aims to cultivate highly skilled and innovative professionals in the field who possess a solid foundation of skills, broad knowledge, exceptional comprehensive qualities, a spirit of innovation, and practical abilities.

III.专业毕业要求 Graduation Requirements

1.思想及身心素质：具有良好的思想政治素质和科学的世界观、人生观、价值观，践行社会主义核心价值观。具有良好的体质、心理素质及社会责任感。

1.1 热爱祖国，充分理解马克思列宁主义、毛泽东思想，中国特色社会主义理论，坚持社会主义核心价值观，具有科学的世界观、坚定的政治立场。

1.2 具备为国家富强、行业发展而奋斗的志向和社会责任感，具有良好的社会公德和法律意识，主动适应新时代社会主义现代化建设和建筑行业发展需求。

1.3 具有健康的体质和心理素质。

1.4 具有社会责任感，理解并能正确处理个人与社会的关系。

1. Ideological, Physical and Psychological Qualities: Having good ideological and political qualities, possessing a scientific worldview, outlook on life, and values, and practicing the core socialist values. Having good physical and psychological qualities, as well as a sense of social responsibility.

1.1 Being patriotic. Fully understand Marxism Leninism and Mao Zedong

Thought, the theory of socialism with Chinese characteristics, adhere to the core values of socialism, and have a scientific world outlook and a firm political stance.

1.2 Possess the aspiration to contribute to the prosperity of the nation and the advancement of the industry, along with a sense of social responsibility. Demonstrate excellent social ethics and legal awareness, while actively adapting to the requirements of socialist modernization in the new era and the development needs of the architectural industry.

1.3 Having a healthy physical and psychological quality.

1.4 Demonstrating a good sense of social responsibility, understand and correctly handle the relationship between individuals and society.

2.基础知识：掌握数学与建筑学的基础理论以及建筑学专业基础知识，并能用于解决建筑设计领域的工程问题。

2.1 掌握建筑学专业所需的数学与建筑学的基础理论和设计方法。

2.2 建筑设计知识与技能：掌握建筑的原则与分析方法，掌握建筑美学的基本原理和构图原则，了解建筑设计与自然环境、人工环境及人文环境的关系，掌握场地设计的基本原理、内容和方法，了解可持续发展的建筑设计观念和理论；了解建筑设计前期策划、方案设计到施工图设计及工程实施等各阶段的工作内容、要求及其相互关系。

2.3 初步掌握调查研究的工作方法，有能力应用建筑设计原理进行建筑方案设计，了解设计过程中各专业协作的工作方法。

2.4 掌握建筑设计主要表达方式，如徒手画、模型制作、电脑制图何表现等，有能力选用恰当的表达方式与手段，形象地表达设计意图和设计成果。

2. Fundamental Knowledge: Acquire a solid understanding of the foundational theories in mathematics and architecture, along with the essential knowledge in the field of architecture. Apply this knowledge effectively to solve engineering challenges within the realm of architectural design.

2.1 Master the essential theories, methodologies, and design approaches in both mathematics and architecture required for the architecture profession.

2.2 Architectural Design Knowledge and Skills: Gain proficiency in architectural principles and analytical methods, comprehend the fundamental principles of architectural aesthetics and composition, understand the relationship between

architectural design and natural, artificial, and human environments. Acquire a grasp of the basic principles, content, and methods of site design, as well as an awareness of sustainable development concepts and theories in architectural design. Familiarize yourself with the various stages of architectural design, from initial planning and conceptual design to construction drawings and project implementation, understanding their respective work requirements and interrelationships.

2.3 Develop preliminary expertise in research methodologies, with the ability to apply architectural design principles to formulate architectural schemes. Gain insight into collaborative approaches across various disciplines during the design process.

2.4 Acquiring proficiency in the main expression methods of architectural design, such as freehand drawing, model making, computer graphics and so on, and have the ability to use appropriate expressions and means to visually express design purpose and design results.

3.专业能力：能够为建筑设计领域的实际问题提出解决方案，考虑历史、社会、健康、安全、法律、文化以及环境等因素，理解建筑结构基本原理与理论，选择与使用恰当的技术、资源、现代工程工具和信息技术工具，并能够在设计中体现创新意识，设计满足需求的建筑。

3.1 了解中外建筑历史发展的过程及基本史实，了解各个历史时期建筑风格的成因，了解当代主要建筑理论及代表人物与作品，了解历史文化遗产保护的重要性与基本原则，有能力进行地域建筑与历史建筑的调查测绘。

3.2 了解环境心理学的基本知识，对建筑环境是否适合于人的行为有一定的辨识与判断。

3.3 熟悉并了解建筑设计与自然环境、人工环境及人文环境的关系，掌握建筑与环境整体协调的设计原则。

3.4 熟悉并了解建筑的工程经济知识和相关建设法规要求。

3.5 理解建筑结构基本原理与理论，能够运用结构知识合理进行建筑结构选型、处理建筑结构与建筑设计之间的协调问题。

3.6 掌握建筑设备、声学、光学、热工等物理与环境知识与原理，能够熟练运用解决建筑设计相关问题。

3.7 掌握建筑材料与构造基本原理和知识，能够合理运用有关理论解决建筑

设计相关问题；掌握建筑防火、消防、稳固等有关理论和规范要求，并能熟练运用解决建筑设计有关问题。

3.8 了解建筑设计领域常用的现代仪器、信息技术工具、工程工具和仿真模拟软件的使用原理和方法，并理解其局限性。

3.9 熟练操作计算机，掌握建筑设计及制图相关软件的应用。有能力使用专业软件辅助建立数字化模型、绘制设计图和编制设计文件。

3.10 能够针对具体的建筑设计问题选用满足特定需求的现代工具，进行建模、仿真和预测，能够正确理解其结果并对结果进行分析。

3. Professional Competence: Being able to propose solutions to practical problems in the field of architectural design, considering factors such as history, society, health, safety, law, culture, and the environment, understanding the basic principles and theories of architectural structure, selecting and using appropriate technologies, resources, modern engineering tools, and information technology tools, and reflecting innovative awareness in architecture design to create buildings that meet needs.

3.1 Understand the processes and essential historical facts of Chinese and foreign architectural development, understand the causes of architectural styles in various historical periods, understand contemporary major architectural theories and representatives and works, understand the importance and basic principles of historical and cultural heritage protection. Capable of conducting surveys and mapping of regional and historical architecture.

3.2 Gain a fundamental understanding of environmental psychology and develop the ability to discern and assess whether architectural environments are conducive to human behavior.

3.3 Familiarize yourself with and comprehend the relationship between architectural design and natural, artificial, and human environments. Acquire a mastery of design principles that ensure the overall harmony between architecture and its surroundings.

3.4 Proficient in knowledge of architectural project economics and relevant construction regulations.

3.5 Understand the basic principles and theories of building structures, and use

structural knowledge to rationally select building structures and deal with coordination between building structures and architectural design.

3.6 Master the physical and environmental knowledge and principles of construction equipment, acoustics, optics, thermal engineering, etc.. Skillfully applies these to address architectural design-related problems.

3.7 Grasps the basic principles and knowledge of building materials and construction, reasonably apply relevant theories to solve problems related to architectural design; master the relevant theoretical and normative requirements of building fire prevention, firefighting, stability, etc., and be proficient in solving problems related to architectural design.

3.8 Understand the principles and methods of using modern instruments, information technology tools, engineering tools and simulation software commonly used in the field of architectural design. Understands the limitations.

3.9 Proficiency in computer operation, mastering the application of architectural design and drawing software. Competent in using professional software to assist in developing digital models, creating design drawings, and preparing design documents.

3.10 Able to select modern tools that meet specific needs for addressing specific architectural design problems. Proficiently conducts modeling, simulation, and prediction. Correctly interprets results and performs result analysis.

4.职业素养: 具有良好的团队合作意识和组织协调能力,能够在工程实践中理解并遵守工程职业道德和规范,履行责任,处理社会、环境与可持续发展问题。

4.1 熟悉注册建筑师制度及建筑师职业道德。能够在建筑设计相关问题实践中理解并遵守设计师职业道德和规范,履行责任。

4.2 具备良好的表达能力和沟通技巧,理解与业界同行和社会公众交流的差异。

4.3 针对建筑学领域复杂工程问题,以口头、文稿、图表等方式,准确表达自己的观点,与业界同行及社会公众进行交流。

4.4 理解和尊重世界不同文化的差异性和多样性,具备跨文化交流的语言和书面表达能力,能够就建筑学领域的问题在跨文化背景下进行基本沟通和交流。

4.5 具有良好的团队合作意识和组织协调能力,能够在多学科背景下的技术

团队中承担个体、团队成员以及负责人的角色。

4.6 能够基于建筑学相关背景知识进行合理分析，评价方案对环境、社会、健康、安全、法律、文化、环境以及可持续发展的影响，理解并明确应承担的责任，维护社会的可持续发展。

4. Professionalism: Possessing a strong sense of teamwork and organizational coordination, understanding and adhering to professional ethics and norms in engineering practice, fulfilling responsibilities, addressing social, environmental, and sustainable development issues.

4.1 Familiar with the registered architect system and the professional ethics of the architect. Ability to understand and abide by the designer's professional ethics and norms and fulfill their responsibilities in the practice of architectural design related issues.

4.2 Demonstrating excellent communication skills and ability understand the differences between the industry and the public.

4.3 Addressing complex engineering issues within the field of architecture, effectively convey your viewpoints through verbal communication, written documents, diagrams, and other means. Engage in productive communication with peers in the industry and the general public.

4.4 Understand and respect the diversity of different cultures in the world, possess spoken and written ability for cross-cultural communication, and be able to conduct basic communication in the field of architecture in cross-cultural contexts.

4.5 Exhibiting a strong sense of teamwork and organizational coordination, and being able to assume the role of individuals, team members or team leader within multi-disciplinary technical teams.

4.6 Conducting reasonable analysis based on the relevant background knowledge of architecture, evaluating the impact of proposals on society, health, safety, law, culture, environment and sustainable development, understanding and acknowledging responsibilities, and promoting social sustainability.

5.学习与研究能力: 具有自主学习与终身学习的意识，具备适应社会发展和技术发展的能力。能够基于科学原理并采用科学方法对建筑设计领域的实际问题开展科学研究。

5.1 正确认识自主学习和终身学习的必要性和重要性，具有自主学习和终身学习的意识和能力。

5.2 能够通过自主学习，紧跟时代潮流，适应建筑设计和社会的发展。

5.3 能够针对设计目标或研究需求了解研究现状及发展趋势，并制定研究方案、拟定研究技术路线。

5.4 能够根据实验/调研数据进行分析和解释，能够综合理论分析、文献研究和实验数据得出合理的研究结论。

5. Learning and Research Abilities: Possess a mindset for self-directed and lifelong learning, with the capability for independent learning and adaptation to societal and technological developments. Demonstrate the ability to conduct scientific research on practical issues within the field of architectural design based on scientific principles and methodologies.

5.1 Recognize the necessity and significance of self-directed and lifelong learning, and possess the awareness and proficiency for engaging in independent and lifelong learning.

5.2 Keeping pace with the trends of the times and adapting to the development of architectural design and society through self-directed learning.

5.3 Understanding the current status and development trends of research related to design objectives or research needs, and developing research proposals and outlining research methodologies.

5.4 Analyzing and interpreting experimental/survey data, and drawing reasonable research conclusions by combining theoretical analysis, literature research and experimental data.

6.创新能力: 具有创新意识、创业精神和批判性思维，并能在解决建筑设计实际问题的所有环节中体现。

6.1 具备创新意识、创业精神和批判性思维。

6.2 能够在建筑设计实践活动中体现创新意识和批判性思维。

6.3 能够将建筑学专业知应用于跨学科领域，突破思维惯性，进行创造性思维。

6. Innovation Ability: Demonstrate an innovative mindset, entrepreneurial spirit, and critical thinking. Apply these attributes across all stages of addressing practical

architectural design challenges.

6.1 Having a sense of innovation, entrepreneurship and critical thinking.

6.2 Demonstrating innovative awareness and critical thinking in architectural design practice activities, and be able to start autonomous business under certain conditions.

6.3 Applying architectural expertise to interdisciplinary fields, break through thinking inertia, and engage in creative thinking.

IV.学制与学位 Duration and Degree

学制：五年

Duration: 5 years

学位：建筑学学士

Degree: Bachelor degree of Architecture

V.主干学科与专业核心课程 Main Subject and Specialized Core Course

主干学科：建筑学

Main Subject: Architecture

专业核心课程：建筑设计基础、建筑材料与构造、建筑力学、建筑结构、建筑设计原理、建筑设计、建筑设备、建筑物理、中国建筑史、外国建筑史、城市规划与景观概论、城市设计、毕业设计与实践等。

Specialized Core Course: architectural design foundation, building material and construction, architectural mechanics, architectural structure, architectural design principles, architectural design, construction equipment, building physics, history of Chinese architecture, history of foreign architecture, introduction to urban planning and landscape, urban design, graduation design and internships.

VI. 毕业学分基本要求 Basic Requirements of Credits for Graduation

课程体系 Curriculum System		学分要求 Credits Requirements						小计 Subtotal
		必修 Compulsory		限修 Distributional Electives		选修 Free Electives		
		理论 Theory	实践 Practice	理论 Theory	实践 Practice	理论 Theory	实践 Practice	
公共基础 课程 Public Basic Courses	思政类 Ideological Politics Courses	15	2					17
	军事类 Military Courses	2	2					4
	外语类 Foreign Language Courses	6		2				8
	体育类 Physical Education Courses		4					4
通识与多元 化课程 General Education and Diversified Courses	“交通天下” 通识教育课程 （含跨学科课程） Core General Education Courses（Interdisciplinary Courses）							
	多元化课程 Diversified Courses							
	国际课程 International Courses					6		6
	大学生心理健康教育课程 University Student Psychological Health Courses							
	学生成长与发展规划课程 Student Growth and Develop ment Planning Courses							
	劳动教育课程 Labor Education Courses	2						2
	公共艺术课程 Public Art Courses	2						2
学科与专 业基础课 程 Discipline and Specialty Foundati onal Courses	数学类 Mathematics Courses	6						6
	专业基础类 Professional Foundational Courses	4	20					24
专业教育 课程 Specialize d Courses	专业核心课 Specialized Core Course	49	36					85
	专业限修课 Specialized Restricted Courses			9-11	1-3			12
	专业选修课 Specialized Free Elective Course					9-12	0-3	12

实践教学环节 Practice Courses	集中性实践教学环节：基本技能训练、工程实践、综合课程设计、社会与文化素质和实践、毕业实习与毕业设计 Centralized Practical Teaching Process: Basic Skills Training, Practical Training, Integrated Curriculum Design, Social and Cultural Quality Practice, Graduation Internship and Graduation Design		18					18
	创新创业实践：创新创业训练计划项目、个性化实验、学科竞赛、创新讲座等 Innovation and Entrepreneurship Practice: Innovation and Entrepreneurship Training Program, Personalized Experiments, Subject Competition, Innovation Lectures, etc		2					2
必修环节 A Compulsory Part	“第二课堂”项目：思想政治与道德素养类项目、学术科技与创新创业类项目、艺术体验与审美修养类项目、文化沟通与交往能力类项目、心理素质与身体素质类项目、社会工作与领导能力类项目、社会实践与志愿服务类项目 "The Second Lesson" Project: Ideological and Political Education and Moral Literacy Projects, Academic and Technological Innovation and Entrepreneurship Projects, Art Experience and Aesthetic Education Projects, Cultural Communication and Interpersonal Skills Projects, Psychological and Physical Health Projects, Social Work and Leadership Development Projects, Social Practice and Volunteering Projects							0
	大学生综合素质提升、学生体质达标测评 Comprehensive Quality Improvement Courses for College Students, Assessment of Students' Physical Fitness							0
总 计 Total								202

VII.课程设置细化表 Course Programs Table

公共基础课程 Public Basic Courses 共 33 学分，其中必修 31 学分，限修 2 学分，选修 0 学分 A total credits of 33, including 31 for compulsory courses, 2 for distributional electives and 0 for free electives								
课程类型 Course Type	课程名称 Course Name	课程性质 Nature of Course	总学分 Credits	课内实践学分 In-class Practice Credits	开课学期 Semester	开课学院 School	支撑毕业要求指标点 Indicators which Support Graduation Requirements	备注 Notes
思政类 Ideological Politics Courses	思想道德与法治 Ideological and Moral Education and the Rule of Law	必修 Compulsory	3	0.4	第 1 学期 Semester 1	马克思主义学院 School of Marxism	1.1 1.2 4.1	
	中国近现代史纲要 Conspectus of Chinese Modern History	必修 Compulsory	3	0.4	第 2 学期 Semester 2	马克思主义学院 School of Marxism	1.2 1.4	
	马克思主义基本原理 The Basic Principles of Marxism	必修 Compulsory	3	0.4	第 3 学期 Semester 3	马克思主义学院 School of Marxism	1.1 1.4	
	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics	必修 Compulsory	3	0.4	第 4 学期 Semester 4	马克思主义学院 School of Marxism	1.1 1.2 1.4	
	习近平新时代中国特色社会主义思想概论 Outline of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	必修 Compulsory	3	0.4	第 6 学期 Semester 6	马克思主义学院 School of Marxism	1.1 1.2 1.4	
	形势与政策 I Situation and Policy I	必修 Compulsory	0		第 1 学期 Semester 1	马克思主义学院 School of Marxism	1.2 4.6	
	形势与政策 II Situation and Policy II	必修 Compulsory	0		第 2 学期 Semester 2	马克思主义学院 School of Marxism	1.2 4.6	
	形势与政策 III Situation and Policy III	必修 Compulsory	0		第 3 学期 Semester 3	马克思主义学院 School of Marxism	1.2 4.6	
	形势与政策 IV Situation and Policy IV	必修 Compulsory	0		第 4 学期 Semester 4	马克思主义学院 School of Marxism	1.2 4.6	
	形势与政策 V Situation and Policy V	必修 Compulsory	0		第 5 学期 Semester 5	马克思主义学院 School of Marxism	1.2 4.6	
	形势与政策 VI Situation and Policy VI	必修 Compulsory	0		第 6 学期 Semester 6	马克思主义学院 School of Marxism	1.2 4.6	
	形势与政策 VII Situation and Policy VII	必修 Compulsory	0		第 7 学期 Semester 7	马克思主义学院 School of Marxism	1.2 4.6	

	形势与政策Ⅷ Situation and Policy Ⅷ	必修 Compulsory	2		第 8 学期 Semester 8	马克思主义学院 School of Marxism	1.2 4.6	
军事类 Military Courses	军事理论 Military Theories	必修 Compulsory	2		第 1 学期 Semester 1	武装部 Security Office	1.1 1.2 1.4	
	军事技能 Military Skills	必修 Compulsory	2	2	短 1 学期 Short Semester 1	武装部 Security Office	1.2 1.3	
外语类 Foreign Language Courses	英语 I College English I	必修 Compulsory	2		第 1 学期 Semester 1	外国语学院 School of Foreign languages	4.2 4.4 5.1	
	英语 II College English II	必修 Compulsory	2		第 2 学期 Semester 2	外国语学院 School of Foreign languages	4.2 4.4 5.1	
	通用学术英语 English for General Academic Purposes	必修 Compulsory	2		第 3 学期 Semester 3	外国语学院 School of Foreign languages	4.2 4.4 5.1	
	职场英语 Workplace English	限修 Distribution al Elective	2		第 4 学期 Semester 4	外国语学院 School of Foreign languages	4.2 4.4 5.1	限修 1 门, 2 学分 Limited to 1 course, 2 credits
	交际与文化视听说 Viewing, Listening & Speaking in English -- Communication & Culture							
	语言、文化与翻译 Language, Culture and Translation							
	英语公共演讲 Public Speaking in English							
体育类 Physical Education Courses	体育 I Physical Education I	必修 Compulsory	1	1	第 1 学期 Semester 1	体育学院 School of Physical Education	1.3	
	体育 II Physical Education II	必修 Compulsory	1	1	第 2 学期 Semester 2	体育学院 School of Physical Education	1.3	
	体育 III Physical Education III	必修 Compulsory	0.5	0.5	第 3 学期 Semester 3	体育学院 School of Physical Education	1.3	
	体育 IV Physical Education IV	必修 Compulsory	0.5	0.5	第 4 学期 Semester 4	体育学院 School of Physical Education	1.3	
	体育健康课程 I Diversified Physical Education Courses I	必修 Compulsory	0.5	0.5	第 5 学期 Semester 5	体育学院 School of Physical Education	1.3	
	体育健康课程 II Diversified Physical Education Courses II	必修 Compulsory	0.5	0.5	第 6 学期 Semester 6	体育学院 School of Physical Education	1.3	

通识与多元化课程 General Education and Diversified Courses 共 10 学分，其中必修 4 学分，限修 0 学分，选修 6 学分 A total credits of 10, including 4 for compulsory courses, 0 for distributional electives and 6 for free electives								
课程类型 Course Type	课程名称 Course Name	课程性质 Nature of Course	总学分 Credits	课内实践学分 In-class practice credits	开课学期 Semester	开课学院 School	支撑毕业要求指标点 Indicators which Support Graduation Requirements	备注 Notes
“交通天下”通识教育课程（含跨学科课程） Core General Education Courses (Interdisciplinary Courses)	“交通天下”通识教育课程（含跨学科课程） Core General Education Courses (Interdisciplinary Courses)	选修 Free Electives	6		2-8 学期 Semester 2-8	全校 The whole school	1.2 1.4 4.2 5.2 6.3	
多元化课程 Diversified Courses	多元化课程 Diversified Courses					全校 The whole school	1.4 4.2 4.5 5.2 6.3	
国际课程 International Courses	国际课程 International Courses					全校 The whole school	1.2 1.4 4.2 4.4 5.2 6.3	
大学生心理健康教育课程 University Student Psychological Health Courses	大学生心理健康教育课程 University Student Psychological Health Courses					全校 The whole school	1.2 1.3 1.4	
学生成长与发展规划课程 Student Growth and Development Planning Courses	学生成长与发展规划课程 Student Growth and Development Planning Courses					全校 The whole school	1.3 1.4 4.2 5.2	
劳动教育课程 Labor Education Courses	劳动教育课程 Labor Education Courses	必修 Compulsory	2		2-8 学期 Semester 2-8	全校 The whole school	1.2 1.3 1.4 4.2 5.2	
公共艺术课程 Public Art Courses	公共艺术课程 Public Art Courses	必修 Compulsory	2		2-8 学期 Semester 2-8	全校 The whole school	1.2 1.3 1.4 4.2 5.2	

学科与专业基础课程 Discipline and Specialty foundational Courses 共 30 学分，其中必修 30 学分，限修 0 学分，选修 0 学分 A total credits of 30, including 30 for compulsory courses, 0 for distributional electives and 0 for free electives								
课程类型 Course Type	课程名称 Course Name	课程性质 Nature of Course	总学分 Credits	课内实践学分 In-class practice credits	开课学期 Semester	开课学院 School	支撑毕业要求指标点 Indicators which Support Graduation Requirements	备注 Notes
数学类 Mathematics Courses	微积分初步 Fundamental of Calculus	必修 Compulsory	3		第 1 学期 Semester 1	数学学院 School of Mathematics	2.1	
	应用统计 Applied Statistics	必修 Compulsory	3		第 2 学期 Semester 2	数学学院 School of Mathematics	2.1	
专业基础类 Professional Foundational Courses	设计导论 Introduction of Design	必修 Compulsory	2		第 1 学期 Semester 1	建筑学院 School of Architecture	1.2, 1.4, 2.1, 2.2, 3.1, 3.4, 3.7, 3.9, 3.10, 4.1, 4.2, 4.3, 2.3, 4.5, 4.6, 5.1, 5.2, 5.3, 6.1	
	画法几何与建筑制图 Graphic Geometry and Architectural Drafting	必修 Compulsory	2		第 1 学期 Semester 1	建筑学院 School of Architecture	2.4, 5.1,	
	美术 I Fine Arts I	必修 Compulsory	3	3	第 1 学期 Semester 1	建筑学院 School of Architecture	2.4, 4.3	
	美术 II Fine Arts II	必修 Compulsory	3	3	第 2 学期 Semester 2	建筑学院 School of Architecture	2.4, 4.3	
	建筑设计基础 I Foundation of Architectural Design I	必修 Compulsory	6	6	第 1 学期 Semester 1	建筑学院 School of Architecture	2.1, 2.2, 2.4, 3.3, 3.7, 4.2, 4.5, 4.6, 5.1, 6.1,	
	建筑设计基础 II Foundation of Architectural Design II	必修 Compulsory	8	8	第 2 学期 Semester 2	建筑学院 School of Architecture	2.1, 2.2, 2.4, 3.3, 3.7, 4.2, 4.5, 4.6, 5.1, 6.1,	

专业教育课程 Specialized Courses 共 109 学分，其中必修 85 学分，限修 12 学分，选修 12 学分 A total credits of 109, including 85 for compulsory courses, 12 for distributional electives and 12 for free electives								
课程类型 Course Type	课程名称 Course Name	课程性质 Nature of Course	总学分 Credits	课内实践学分 In-class practice credits	开课学期 Semester	开课学院 School	支撑毕业要求指标点 Indicators which Support Graduation Requirements	备注 Notes
专业核心课 Specialized Core Course	建筑设计原理 A Design Principle of Architecture A	必修 Compulsory	3		第 3 学期 Semester 3	建筑学院 School of Architecture	2.2, 2.3, 3.3, 3.6, 3.7, 3.9, 4.1, 4.2, 4.6	
	建筑材料与构造 I Building Material and Construction I	必修 Compulsory	3		第 3 学期 Semester 3	建筑学院 School of Architecture	1.2, 3.7	
	建筑材料与构造 II Building Material and Construction II	必修 Compulsory	2		第 7 学期 Semester 7	建筑学院 School of Architecture	1.2, 3.7	
	建筑力学 Architectural Mechanics	必修 Compulsory	3		第 3 学期 Semester 3	建筑学院 School of Architecture	3.5, 3.6	
	建筑结构 Architectural Structure	必修 Compulsory	2		第 4 学期 Semester 4	建筑学院 School of Architecture	3.5, 3.6	
	建筑结构选型 Selection of Building Structure	必修 Compulsory	2		第 6 学期 Semester 6	建筑学院 School of Architecture	3.5, 3.6	
	建筑设计 A1-1 Architectural Design A1-1	必修 Compulsory	4	4	第 3 学期 Semester 3	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 2.4, 6, 5.2, 5.4, 6.1	
	建筑设计 A1-2 Architectural Design A1-2	必修 Compulsory	4	4	第 3 学期 Semester 3	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 2.4, 6, 5.2, 5.4, 6.1	
	中国建筑史 History of Chinese Architecture	必修 Compulsory	3		第 4 学期 Semester 4	建筑学院 School of Architecture	3.1, 3.3, 3.7, 4.5, 4.6, 6.1, 6.2	
	建筑设计 A2-1 Architectural Design A2-1	必修 Compulsory	4	4	第 4 学期 Semester 4	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 2.4, 6, 5.2, 5.4, 6.1	
	建筑设计 A2-2 Architectural Design A2-2	必修 Compulsory	4	4	第 4 学期 Semester 4	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 2.4, 6, 5.2, 5.4, 6.1	
	外国建筑史 History of Foreign Architecture	必修 Compulsory	4		第 5 学期 Semester 5	建筑学院 School of Architecture	1.2, 2.1, 2.2, 3.1, 3.3, 4.4, 5.1, 5.2, 6.1	
	城市规划与景观概论 Introduction to Urban Planning and Landscape	必修 Compulsory	2		第 6 学期 Semester 6	建筑学院 School of Architecture	1.1, 1.2, 2.2, 3.3, 4.6, 3.8, 5.3, 5.4	
	建筑设备 Architecture Equipment	必修 Compulsory	2		第 8 学期 Semester 8	建筑学院 School of Architecture	3.6, 3.8, 4.2, 5.3, 5.4	

专业核心课 Specialized Core Course	建筑设计 A3-1 Architectural Design A3-1	必修 Compulsory	4	4	第 5 学期 Semester 5	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 3.1, 3.8, 4.1, 5.4	
	建筑设计 A3-2 Architectural Design A3-2	必修 Compulsory	4	4	第 5 学期 Semester 5	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 3.1, 3.8, 4.1, 5.4	
	建筑设计 A4 Architectural Design A4	必修 Compulsory	8	4	第 6 学期 Semester 6	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 3.1, 3.8, 4.1, 5.4	
	建筑设计 A5 Architectural Design A5	必修 Compulsory	8	4	第 7 学期 Semester 7	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 3.1, 3.8, 4.1, 5.4	
	建筑设计 A6 Architectural Design A6	必修 Compulsory	8	4	第 8 学期 Semester 8	建筑学院 School of Architecture	1.3, 1.4, 2.2, 2.3, 3.1, 3.8, 4.1, 5.4	
	城市设计 Urban Design	必修 Compulsory	2		第 7 学期 Semester 7	建筑学院 School of Architecture	3.2, 3.3, 3.6, 3.7, 5.3	
	建筑师职业基础 Professional Practice of Architect	必修 Compulsory	2		第 8 学期 Semester 8	建筑学院 School of Architecture	1.3, 1.4, 3.4, 4.1, 4.6	
	建筑物理 (热) Building Physics (Thermodynamics)	必修 Compulsory	2		第 5 学期 Semester 5	建筑学院 School of Architecture	1.3, 2.2, 2.3, 3.3, 3.6, 3.10, 4.3, 4.6	
	建筑物理 (声、光) Building Physics (Lighting, Acoustics)	必修 Compulsory	3		第 6 学期 Semester 6	建筑学院 School of Architecture	1.3, 2.2, 2.3, 3.3, 3.6, 3.10, 4.3, 4.6	
	设计专题研究 Research on Architecture Design	必修 Compulsory	2		第 9 学期 Semester 9	建筑学院 School of Architecture	1.4, 4.1, 4.2, 4.3, 4.4, 5.3, 5.4	
专业限选课 Specialized Restricted Courses	建筑造型基础 Fundamental of Architecture modeling	限修 Distributional Elective	2		第 2 学期 Semester 2	建筑学院 School of Architecture	2.4, 3.2, 3.3, 3.7, 3.8, 3.9	限修 12 学分 Distributional Elective 12 credits
	场地设计 Site Design	限修 Distributional Elective	2		第 5 学期 Semester 5	建筑学院 School of Architecture	1.4, 2.2, 3.9, 3.10, 5.3, 5.4	
	建筑数字化 I Building Digitization I	限修 Distributional Elective	2	0.5	第 3 学期 Semester 3	建筑学院 School of Architecture	3.8, 3.9, 3.10, 5.3, 5.4, 4.6, 6.2, 6.3	
	建筑数字化 II Building Digitization II	限修 Distributional Elective	2	0.5	第 5 学期 Semester 5	建筑学院 School of Architecture	3.8, 3.9, 3.10, 5.3, 5.4, 4.6, 6.2, 6.3	
	绿色建筑理论与设计 (英语) Theory and Design of Green Buildings (English)	限修 Distributional Elective	2	0	第 6 学期 Semester 6	建筑学院 School of Architecture	1.4, 3.9, 3.10, 4.5, 4.6, 5.3, 5.4, 6.1	
	现代建筑理论与历史 (双语) Theory and History of Modern Architecture (Bilingual)	限修 Distributional Elective	2		第 6 学期 Semester 6	建筑学院 School of Architecture	1.4, 3.1, 3.3, 3.7, 3.8, 4.4, 5.3	
	专题建筑设计 Specific Architecture Design	限修 Distributional Elective	2	2	第 8 学期 Semester 8	建筑学院 School of Architecture	1.4, 4.2, 4.3, 4.6, 6.1, 6.2	

专业选修课 Specialized Free Elective Course	建筑表达方法 Architectural Expression Methods	选修 Free Electives	2	1.5	第 2 学期 Semester 2	建筑学院 School of Architecture	1.2, 1.3, 1.4, 2.1, 2.3, 2.4, 3.9, 3.10, 6.1	选修 12 学分 Free Electives 12 credits
	环境心理学 Environmental Psychology	选修 Free Electives	2		第 4 学期 Semester 4	建筑学院 School of Architecture	2.3, 3.2, 3.9, 4.5, 4.6, 6.1	
	建筑设计方法 Design Methods of Buildings	选修 Free Electives	2		第 4 学期 Semester 4	建筑学院 School of Architecture	1.4, 4.1, 4.2, 4.3, 4.4, 6.1, 6.2	
	设计思维 Design Thinking	选修 Free Electives	2		第 5 学期 Semester 5	建筑学院 School of Architecture	2.1, 2.2, 2.3, 3.3, 4.2, 5.3, 6.1, 6.2, 6.3	
	历史建筑保护与利用 Protection and Utilization of Historical Architecture	选修 Free Electives	2		第 5 学期 Semester 5	建筑学院 School of Architecture	2.1, 2.2, 2.3, 3.1, 5.3, 6.1	
	建筑安全与防灾 Safety and Disaster Prevention of Architecture	选修 Free Electives	2		第 6 学期 Semester 6	建筑学院 School of Architecture	1.2, 1.4, 3.2, 3.3, 3.7, 3.8, 4.6, 5.3	
	建筑数字化III Building Digitization III	选修 Free Electives	2	0.5	第 7 学期 Semester 7	建筑学院 School of Architecture	3.8, 3.9, 3.10, 5.3, 5.4, 4.6, 6.2, 6.3	
	建筑评析 Evaluation of Architecture	选修 Free Electives	2	1	第 8 学期 Semester 8	建筑学院 School of Architecture	4.3, 4.5, 5.3, 5.4, 5.1, 5.2, 6.2	
	低碳建筑理论与设计方法 Theory and Design Methods of Low-carbon Building	选修 Free Electives	2		第 8 学期 Semester 8	建筑学院 School of Architecture	1.2, 3.6, 3.8, 3.10, 5.4, 6.3	
	城乡社会学 Urban and Rural Sociology	选修 Free Electives	2		第 7 学期 Semester 7	建筑学院 School of Architecture	3.3, 4.6, 5.3, 5.4	
	居住区规划与环境景观设计 Residential Area Planning and Environmental Landscape Design	选修 Free Electives	2		第 7 学期 Semester 7	建筑学院 School of Architecture	3.3, 4.5, 4.6, 6.2	
	风景园林简史 Brief History of Landscape Architecture	选修 Free Electives	2		第 7 学期 Semester 7	建筑学院 School of Architecture	2.1, 2.3, 3.7	

实践教学环节 Practice Courses 共 20 学分，其中必修 20 学分，限修 0 学分，选修 0 学分 A total credits of 20, including 20 for compulsory courses, 0 for distributional electives and 0 for free electives								
课程类型 Course Type	课程名称 Course Name	课程性质 Nature of Course	总学分 Credits	课内实践学分 In-class practice credits	开课学期 Semester	开课学院 School	支撑毕业要求指标点 Indicators which Support Graduation Requirements	备注 Notes
集中性实践教学环节：基本技能训练、工程实践、综合课程设计、社会与文化素质和实践、毕业实习与毕业设计 Centralized Practical Teaching Process: Basic Skills Training, Practical Training, Integrated Curriculum Design, Social and Cultural Quality Practice, Graduation Internship and Graduation Design	建构实习 Architectural Constructive Practice	必修 Compulsory	0.5	0.5	短 1 学期 Short Semester 1	建筑学院 School of Architecture	2.2, 3.1, 3.2, 3.7, 3.8, 3.9	
	美术实习 Practice of Fine Arts	必修 Compulsory	1	1	短 1 学期 Short Semester 1	建筑学院 School of Architecture	2.2, 3.1, 3.2, 3.3, 3.6, 3.7, 3.8	
	古建筑测绘实习 Surveying and Mapping of Ancient Buildings Practice	必修 Compulsory	2	2	短 2 学期 Short Semester 2	建筑学院 School of Architecture	2.1, 2.2, 3.3, 4.3, 4.5, 6.1	
	建筑设计快题训练 Architectural Design Quick Exercise Training	必修 Compulsory	0.5	0.5	短 3 学期 Short Semester 3	建筑学院 School of Architecture	2.4, 3.3, 3.6, 3.7, 4.3	
	建筑设计实践实习 Architecture Design Practice	必修 Compulsory	6	6	第 9 学期 Semester 9	建筑学院 School of Architecture	2.3, 3.1, 3.2, 3.7, 3.8, 4.2, 4.3, 4.5	
	毕业设计与实践 Graduation Design and Practice	必修 Compulsory	8	8	第 10 学期 Semester 10	建筑学院 School of Architecture	3.2, 3.7, 4.1, 4.3, 4.5, 5.4, 6.1, 6.2	
创新创业实践：创新创业训练计划项目、个性化实验、学科竞赛、创新讲座等 Innovation and Entrepreneurship Practice: Innovation and Entrepreneurship Training Program, Personalized Experiments, Subject Competition, Innovation Lectures, etc	创新创业实践 Innovation and Entrepreneurship Practice	必修 Compulsory	2	2	3-9 学期 Semester 3-9	建筑学院 School of Architecture	1.2, 1.4, 4.3, 4.4, 4.5, 5.1, 5.2, 5.3, 5.4, 6.1, 6.2, 6.3	按照《西南交通大学创新创业学分认定与管理办法》规定执行 By Credit Recognition and Management of Innovative Practice in Southwest Jiaotong University

必修环节 A compulsory part 共 0 学分，其中必修 0 学分，限修 0 学分，选修 0 学分 A total credits of 0, including 0 for compulsory courses, 0 for distributional electives and 0 for free electives								
课程类型 Course Type	课程名称 Course Name	课程性质 Nature of Course	总学分 Credits	课内实践学分 In-class practice credits	开课学期 Semester	开课学院 School	支撑毕业要求指标点 Indicators which Support Graduation Requirements	备注 Notes
“第二课堂”项目：思想政治与道德素养类项目、学术科技与创新创业类项目、艺术体验与审美修养类项目、文化沟通与交往能力类项目、心理素质与身体素质类项目、社会工作与领导能力类项目、社会实践与志愿服务类项目 "The Second Lesson" Project: Ideological and Political Education and Moral Literacy Projects, Academic and Technological Innovation and Entrepreneurship Projects, Art Experience and Aesthetic Education Projects, Cultural Communication and Interpersonal Skills Projects, Psychological and Physical Health Projects, Social Work and Leadership Development Projects, Social Practice and Volunteering Projects	“第二课堂”项目 "The Second Lesson" Project	必修 Compulsory	0		1-8 学期 Semester 1-8	校团委 Communist Youth League Committee	1.1, 1.2, 1.3, 1.4, 4.2, 4.5	
大学生综合素质提升、学生体质达标测评 Comprehensive Quality Improvement Courses for College Students Assessment of Students' Physical Fitness	大学生综合素质提升 Comprehensive Quality Improvement Courses for College Students	必修 Compulsory	0		1-8 学期 Semester 1-8	校团委 Communist Youth League Committee	4.2, 4.3, 4.4, 5.1, 5.2, 4.5, 4.6, 6.1, 6.2	
	学生体质达标测评 Assessment of Students' Physical Fitness	必修 Compulsory	0		秋季学期 Fall semester	体育学院 School of Physical Education	1.3	
学分总计 Total Credits			202					

西南交通大学培养方案变更申请表

申请单位		专业（方向）		涉及年级		涉及学生人数	
建筑学院		建筑学		2023 级		60	
课程名称	课程编码	课程学分	选修性质	开课学期	变更内容	变更原因	
建筑造型基础		2	限修	2	名称变更为《建筑造型》	新版培养方案课程名称和代码与老版培养方案课程名称和代码冲突	
现代建筑理论与历史（双语）		2	限修	6	名称变更为《现代建筑理论与历史》	新版培养方案课程名称和代码与老版培养方案课程名称和代码冲突	
建筑设计实践实习		6	必修	9	名称变更为《建筑设计实践》	新版培养方案课程名称和代码与老版培养方案课程名称和代码冲突	
本专业专家论证意见（可另附表）：							
专业负责人意见：  专业负责人签名：祝学 2023 年 11 月 2 日		教授委员会意见： 经***年*月*日教授委员会讨论，与会委员表决情况如下：  教授委员会主任签名： 年 月 日			学院/中心 意见：  院长/主任 签名： 学院/中心（盖章）： 年 月 日		