

产品设计专业培养方案

Undergraduate Program of Product Design

I. 专业介绍 Introduction

西南交通大学产品设计专业成立于 1998 年，经过二十余年的发展已经形成了“本-硕-博”教育培养体系。专业立足于学校的交通特色和多学科交叉优势，面向我国制造业创新升级的重大战略需求，服务于以轨道交通为代表的高端装备行业，定位为“轨道交通特色”的国内一流产品设计专业。

本着服务于相关行业领域的目标，产品设计专业教学以交通、交互及智能产品设计领域作为发展重点，同时重视医疗健康、公共安全、数字服务及可持续设计等方向的研究。专业一直保持较高就业率，学生就业方向主要包括国内外车企、智能家电业、IT 业、电商业、高端装备制造业、家具家居业和各类大专院校及研究机构，具体从事产品设计、交互设计、服务设计、设计管理或产品设计教学工作和研究工作。优秀本科毕业学生可直接保送本校硕士研究生或推免国内其他院校。

The product design major of Southwest Jiaotong University was founded in 1998. With its development in the past 20 years, the major has instituted the tiered "Bachelor- Master-Doctor" educational system. Based on the traffic characteristics of Southwest Jiaotong University and multidisciplinary advantages, the major faces the important strategic needs of China's manufacturing innovation and upgrading, and serves the high-end equipment industry represented by rail transit, and is positioned as a national first-class product design major with "rail transit features".

The major has maintained a high employment rate, and the employment direction of students mainly includes automobile enterprises, intelligent household appliance enterprises, IT enterprises, e-commerce enterprises, high-end equipment manufacturing enterprises, furniture home furnishing enterprise and various colleges and research institutions at home and abroad, mainly engaged in product design, interaction design, design management, or product design teaching and research work. Excellent undergraduates can be directly recommended to pursue their master degree in our University or other colleges and universities in China.

专业代码: 130504

Program Code: 130504

专业名称: 产品设计

Program Name: Product Design

II.培养目标 Objectives

适应社会主义建设需要,为国家和民族培养德智体美全面发展的社会主义建设者和接班人,培养具有领先的艺术审美和系统的产品设计专业知识,拥有创新设计思维和实践动手能力、拥有广阔视野和跨学科交融的适应“新时代”发展多种需求的复合型应用人才。

It strives to meet the needs of socialist construction, to cultivate students to be socialist constructors and successors with all-round development of morality, wisdom, physique and beauty for the nation, and to help acquire knowledge of leading artistic aesthetics and systematic product design. It also focuses on help students with innovative design thinking and abilities, with a vision and interdisciplinary mindset to cater to the development of the “new era”.

III.专业毕业要求 Graduation Requirements

1.知识结构要求 Knowledge structure requirements

具有自然科学、人文科学知识基础以及广泛的美术知识,了解艺术与设计发展历史相关知识,掌握产品设计的基本知识,深入掌握工业设计思维和设计方法的专业知识,熟悉产品设计表现方法以及为产品设计专业服务的材料、计算机辅助设计、人机工程等相关知识,了解产品设计发展前沿动态,具有广阔的设计视野。

Have the knowledge foundation of natural science, humanities science and extensive art knowledge, understand the history of art and design development, master the basic knowledge of product design, deeply master the professional knowledge of product design thinking and design method, familiar with the expression method of Industrial design and materials, computer aided design, ergonomics and other related knowledge, etc. Understand the frontier trends of product design development, with a broad design vision.

1.1 自然科学知识 Natural science knowledge

培养学生自然科学知识, 管理学、心理学等知识, 通过全校通识课和选修课、生命科学导论、信息检索等课程实现, 熟悉科学技术、工程技术方面的基本知识。

To help students acquire the knowledge of natural science, management, psychology and so on, and to be familiar with rudimentary knowledge of the science and technology, engineering through courses ,including the liberal studies on the university scale and electives, introduction to the life science, the information retrieval,etc.

1.2 人文科学知识 Humanities science knowledge

职业生涯与发展规划、大学生心理健康、法律与社会、创业教育、思想道德修养与法律基础、中国近现代史纲要、马克思主义基本原理、毛泽东思想和中国特色社会主义理论体系概论、军事理论、体育、外语类课程等, 具有基本的人文社会科学知识, 熟悉哲学、政治学、经济学、法学、军事等方面的基本知识。

Courses cover as follows, Career and Development Planning, College students' Mental Health, Law and Society, Entrepreneurship Education, moral values and legal basis, outline of Modern Chinese History, basic principles of Marxism, Mao Zedong thought and socialist theory system with Chinese characteristics, military theory, physical education, foreign languages, etc. Students are expected to acquire basic knowledge of humanities and social sciences, and be familiar with philosophy, political science, economics, law, military and so on.

1.3 专业知识 Professional knowledge

通过设计基础、产品设计表达、模型基础、设计调查程序与方法、形态设计等课程, 理解产品设计的基本知识, 并初步掌握产品设计的基本技能; 通过交互设计、交通工具设计、专题设计等贯穿各学期的专业课核心课程及专业选修课, 掌握产品设计领域综合知识与技能。

Through the design foundation, product design expression, model foundation, design investigation procedure and method, form design and other courses, students shall understand the basic knowledge of product design, and master the basic skills of product design; through core courses and professional elective courses, such as interactive design, vehicle design, thematic design and other specialized courses throughout each Semester, students shall master the comprehensive knowledge and skills in the field of product design.

1.4 支撑专业培养的其他知识 Other knowledge that supports professional development

通过创意编程与设计、三维软件应用、工程软件应用、人机工程学、CMF 应用与设计等，掌握为专业服务材料、计算机辅助设计、人机工程等相关知识。

Through introduction to digital design and software application, 3D software application, engineering software application, ergonomics, CMF application and design, students shall master relevant knowledge of materials, computer-aided design, ergonomics.

1.5 国内外学科前沿知识 Knowledge of frontier progress (at home and abroad)

通过创新创业实践、学科竞赛及国内外专家学者讲座等方式了解设计发展前沿动态，掌握产品设计领域最前沿的知识。

Through innovation and entrepreneurship practice, discipline competitions and lectures by domestic and international experts and scholars, students shall be informed the frontier knowledge of design development and master the most cutting-edge knowledge in the field of product design.

1.6 美学知识 Aesthetic knowledge

通过中外美术史、现代设计史 A 等课程，掌握艺术的基本面貌和发展的历史，了解设计的不同发展时期的基本特征及现象；通过设计思维、构成基础、设计基础等课程，掌握设计图形、色彩、形体的构成关系及设计审美关系，掌握设计创造的思维方式及创作方式。

By learning courses such as Chinese and foreign art history, modern design history and other courses, students shall have knowledge of art and its history of development, and understand the basic characteristics and phenomena of various development periods of designing; by learning courses including design thinking, basic formations, design basis and etc., students shall master the design drawings and colors, the formations or constituents of objects, and the aesthetic relation of the design, and cultivate the designing and creative thinking and ways of creation.

2.能力结构要求 Capacity structure requirements

培养学生终生学习能力，拥有良好的美术与设计技能，深入掌握产品设计表现技法，具有产品设计创新创造能力，具备逻辑思维能力，培养学生发现问题、分析问题和解决产品设计具体问题的综合能力，具有较强的动手实践能力和流畅

的表达、交流能力，以及对设计工作的组织管理能力。

Cultivate students' lifelong learning ability, have good art and design skills, deeply master product design performance techniques, have product design innovation and creation ability, have logical thinking ability, cultivate students' comprehensive ability to find problems, analyze problems and solve specific problems of product design, have strong practical ability and fluent expression, communication ability, as well as the ability of organization and management of design work.

2.1 终生学习能力 Lifelong learning ability

综合素质和设计思维能力的培养贯穿全教学过程，设计基础、设计思维及专业设计实践环节、设计技能培养等课程，将基础设计能力与设计思维训练相结合，培养终生学习能力。

The cultivation of comprehensive quality and design thinking abilities runs through the whole teaching process, such as design foundation, design thinking and professional design practice, design skill training, etc., which combines the basic design ability with the design thinking training. It aims to cultivate lifelong learning ability.

2.2 设计的基本能力 The basic ability of design

通过相关专业基础课程的学习，掌握设计图形、色彩、形体的构成关系及设计审美关系，使学生具备扎实的基础设计的能力。

Through the study of basic courses of related majors, students will master the composition relations of design graphics, colors and forms and the aesthetic relations of design, so that they can have a solid ability of basic design.

2.3 设计的创新能力 Innovative ability of product design

通过设计相关进阶课程的学习，在学科竞赛、创新创业训练计划项目、学术讲座、实习实践、毕业设计等环节中，培养学生的创新意识，具备产品设计创新能力。

Through the study of advanced courses related to design, students will be cultivated with innovative consciousness and product design innovation ability in the links of discipline competition, innovation and entrepreneurship training program, academic lecture, internship and graduation design.

2.4 设计实践能力 Design practical ability:

通过前期设计调研、CMF 等专业课程以及专题设计、工程训练、学科竞赛等

设计实践环节，使学生了解产品的材料和工艺、研发的程序与方法，具备产品开发的设计实践能力。

Through preliminary design research, CMF and other professional courses, as well as design practice links such as thematic design, engineering training and discipline competition, students can understand the materials and technology of products, the procedures and methods of research and development, and have the design practice ability of product development.

2.5 设计表达与交流能力 Design expression and communication skills

通过产品设计表达、模型基础、三维软件、工程软件等课程及专业课程中小组合作、联合设计、校际交流、学科竞赛等方式，使学生能够熟练运用草图手绘、计算机软件、文字、语言进行表达和交流。

Through product design expressions, model foundation, 3D software, engineering software and other courses, and in the form of group cooperation in professional courses, joint designing, inter-school communication, subject competition, etc., students shall skillfully use sketch drawing, computer software, text, languages to express and communicate.

2.6 组织管理能力 Organization and management ability

通过全校通识课程、参与社会实践活动、创新创业实践及专业课程中小组合作、联合设计、校际交流、设计工作坊等方式，使学生具备卓越的组织、管理能力。

Through the liberal studies on the university scale, and participations in the social practice activities, innovative the entrepreneurship practice, and the specialized curriculum group cooperation, the joint design, the inter-school communication, design workshops and so on, students shall cultivate the outstanding organization and management ability.

3. 素质结构要求 Quality structure requirements

热爱祖国，充分理解马克思主义毛泽东思想，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，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以及职业道德，具有一定国际视野和良好审美素养与艺术修养，主动适应新时代中国特色社会主义现代化建设和产品设计行业发展需求。

Love the motherland, fully understand Marxist Mao Zedong thought, the theory of socialism with Chinese characteristics, adhere to the core values of socialism, have a scientific world outlook, firm political stand, have the ambition and social responsibility to strive for the prosperity and strength of the country and the development of the industry, have good social morality, legal consciousness and professional ethics, and have a certain international vision and good aesthetic and artistic accomplishment. Take the initiative to meet the needs of socialist modernization and the development of product design industry in the new era.

3.1 道德修养 Moral cultivation

思想道德修养和法律基础，培养学生具有良好的道德修养与情操。

By learning the course of moral values and legal basis, students shall have a good sense of moral values.

3.2 民族精神 Ethos

中国近现代史纲要、形势与政策、马克思主义基本原理、毛泽东思想和中国特色社会主义理论体系概论等，使学生具有爱国主义精神和人格力量。

By learning courses ,including the outline of modern Chinese history, the situations and policies, the basic principles of Marxism, Mao Zedong thoughts and an introduction to the theoretical system of socialism with Chinese characteristics, students shall have a patriotic spirit and personal integrity.

3.3 理想信念 Ideal and faith

思想道德修养和法律基础、中国近现代史纲要、形势与政策、马克思主义基本原理、毛泽东思想和中国特色社会主义理论体系概论、全校通识课程、培养学生以设计服务人类、服务社会的责任感、使命感。

By learning moral values and legal basis, outline of modern Chinese history, situation and policy, basic principles of Marxism, introduction to Mao Zedong thought and theoretical system of socialism with Chinese characteristics, the liberal studies on the university scale, students shall cultivate a sense of serving people and the society with their designs.

3.4 国际视野 International perspective

通过中外美术史、现代设计史 A、认识实习、课外创新实践及国内外专家学者讲座、校际间设计工作坊等方式使学生了解设计发展前沿、拥有广阔的国际视野，正确认识和吸取先进事物。

Through courses such as the history of Chinese and foreign art, the history of modern design, and field work, the practice of outside-class innovation the lectures of experts and scholars at home and abroad, the design workshops of the inter-school and so on, students shall have knowledge of the latest designing and have international horizons, and correctly understand and draw on advanced things.

3.5 人际交往与团队合作 Interpersonal communication and teamwork

通过专业课程中的小组合作、学科竞赛竞赛、校际设计工作坊等方式使学生能够协调和处理人际关系，富有良好的团队合作精神。

Through group cooperation, subject competitions and inter-school design workshops, students can coordinate and cultivate good interpersonal relationships, and a good team spirit.

3.6 审美素养与艺术修养 Aesthetic Literacy and artistic cultivation

中外美术史、现代设计史 A、设计基础、设计思维、专业选修课、全校通识课和选修课，培养认识美、欣赏美、创造美的审美素养和艺术修养。

By learning courses ,such as Chinese and foreign art history, modern design history, design foundation, design thinking, professional elective course, the liberal studies on the university scale and electives, students shall cultivate aesthetic and artistic tastes of understanding, appreciating and creating beauty.

IV.学制与学位 Duration and Degree

学制：4 年

Duration: 4 Years

学位：艺术学学士

Degree: Bachelor of Arts

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

主干学科：设计学

Main Subject: Design science

主干课程: 产品专题设计 I/II/III, 设计创意工作坊 A/B/C, 交互设计, 数据可视化, 服务设计与商业规划, 交通工具设计, 智慧城市与社会创新, 智能设计, 交互用户体验, 智能座舱 HMI 人机交互设计, 未来出行, 智能产品拓展设计及

应用，传统文化与产品创新。

Main Course : Design project I/II/III, Creative design workshop A/B/C, Interactive Design, Data visual design, Service design and business planning, vehicle design, Smart city and Social innovation, Intelligent Design, Interactive User Experience, Human-Machine Interaction in the Cockpit and Applicable Design, Future travel, Intelligent Product Expansion Design and Application, Traditional culture and Product innovation.

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						
		必修 Compulsory		限修 Distributional Electives		选修 Free Electives		小计 Subtotal
		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）					6		6
	多元化课程 Diversified Courses							
	国际课程 International Courses							
	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 Development 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 Foundational Courses	专业基础课 Professional Foundational Courses	23	28					51
专业教育课程 Specialized Courses	专业核心课 Specialized Core Course	17	28					45
	专业限选课 Specialized Restricted Courses			2	2			4
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		15					15
	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								160

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 2 学期 Semester 2	马克思主义学院 School of Marxism	1.2/3.1/3.2/3.3	
	中国近现代史纲要 Conspectus of Chinese Modern History	必修 Compulsory	3	0.4	第 1 学期 Semester 1	马克思主义学院 School of Marxism	1.2/3.1/3.2/3.3	
	马克思主义基本原理 The Basic Principles of Marxism	必修 Compulsory	3	0.4	第 4 学期 Semester 4	马克思主义学院 School of Marxism	1.2/3.1/3.2/3.3	
	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 3 学期 Semester 3	马克思主义学院 School of Marxism	1.2/3.1/3.2/3.3	
	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 5 学期 Semester 5	马克思主义学院 School of Marxism	1.2/3.1/3.2/3.3	
	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	1.1/3.1/3.3/3.4	
	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	1.1/3.1/3.3/3.4	
	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	1.1/3.1/3.3/3.4	
	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	1.1/3.1/3.3/3.4	
	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	1.1/3.1/3.3/3.4	
	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	1.1/3.1/3.3/3.4	

	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	1.1/3.1/3.3/3.4	
	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	1.2/3.1/3.2/3.3	
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	1.2/3.1/3.3	
	军事技能 Military Skills	必修 Compulsory	2	2	短 1 学期 Short Semester 1	武装部 Security Office	1.2/3.1/3.3	
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	1.1/1.2	
	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	1.1/1.2	
	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	1.1/1.2	
	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	1.1/1.2	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	1.2/3.1	
	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	1.2/3.1	
	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	1.2/3.1	
	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	1.2/3.1	
	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	1.2/3.1	
	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	1.2/3.1	

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 Core General Education Courses (Interdisciplinary Courses)	“交通天下”通识教育课程 Core General Education Courses	选修 Free Electives	6		2-8 学期 Semester 2-8	全校 The whole school	1.1/2.9/3.3	
多元化课程 Diversified Courses	多元化课程 Diversified Courses					全校 The whole school	1.1/2.9/3.3	
国际课程 International Courses	国际课程 International Courses					全校 The whole school	1.1/2.9/3.3	
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	1.1/2.9/3.3	
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	1.1/2.9/3.3	
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		
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		

学科与专业基础课程 Discipline and Specialty foundational Courses 共 51 学分，其中必修 51 学分，限修 0 学分，选修 0 学分 A total credits of 51, including 51 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
专业基础课 Professional Foundational Courses	设计导论 Introduction to Design	必修 Compulsory	2		第 1 学期 Semester 1	设计艺术学院 School of Design	1.5/1.8/2.1/2.3/ 2.5/2.6/3.3/3.4/ 3.6	
	摄影基础 Photography Basics	必修 Compulsory	4	2	第 1 学期 Semester 1	设计艺术学院 School of Design	1.6/1.9/2.2/2.4/ 3.6	
	图形设计 Graphic Design	必修 Compulsory	4	2	第 1 学期 Semester 1	设计艺术学院 School of Design	1.6/1.9/2.2/2.4/ 3.6	
	设计基础 Design Basis	必修 Compulsory	4	3	第 1 学期 Semester 1	设计艺术学院 School of Design	1.3,2.1,2.3, 3.1,3.3,3.5	
	设计思维与表达 Design Thinking and Expression	必修 Compulsory	4	2	第 2 学期 Semester 2	设计艺术学院 School of Design	1.5/1.8/2.1/2.3/ 2.5/2.6/3.3/3.4/ 3.6	
	形态创意 Form Creativity	必修 Compulsory	4	3	第 2 学期 Semester 2	设计艺术学院 School of Design	1.6/1.9/2.2/2.3/ 2.4/3.6	
	创意编程与设计 Creative programming and Design	必修 Compulsory	4	3	第 2 学期 Semester 2	设计艺术学院 School of Design	1.1/1.5/1.6/1.7/ 2.3/2.4/2.8	
	现代设计史 Modern Design History	必修 Compulsory	2		第 2 学期 Semester 2	设计艺术学院 School of Design	1.1/1.2/1.3/1.5/ 1.9/2.3/3.4/3.6	

专业基础课 Professional Foundational Courses	设计方法及其工具应用 Design methods and Tool applications	必修 Compulsory	3	1	第 3 学期 Semester 3	设计艺术学院 School of Design	1.1/1.3/1.4/ 2.2/2.3/2.4/ 2.5/ 3.3/3.4	
	产品设计技法及概念表达 Product Design Technology and Concept Expression	必修 Compulsory	3	2	第 3 学期 Semester 3	设计艺术学院 School of Design	1.3/2.1/2.3/ 3.1/3.3	
	模型基础 Fundamentals Model	必修 Compulsory	4	3	第 3 学期 Semester 3	设计艺术学院 School of Design	1.4/1.5/1.6/1.7/ 2.4/2.7/2.8	
	计算机形态建模 Computer-aided Shape Modeling	必修 Compulsory	0.5	0.5	第 3 学期 Semester 3	设计艺术学院 School of Design	1.1/1.2/1.4/ 2.3/2.4	不设具体 课堂课时， 仅安排考 试 There are no class hours, only exams
	人机工程学 Ergonomics Design	必修 Compulsory	4	3	第 4 学期 Semester 4	设计艺术学院 School of Design	1.1/1.3/1.4/ 2.2/2.3/2.4/ 2.5/3.3/3.4	
	设计调查程序与方法 Design investigation procedure and Method	必修 Compulsory	3	2	第 4 学期 Semester 4	设计艺术学院 School of Design	1.2/1.3/1.5/ 2.2/2.4/2.5/ 3.5/3.6	
	计算机模型表达 Computer-aided Presentation of Design Models	必修 Compulsory	0.5	0.5	第 4 学期 Semester 4	设计艺术学院 School of Design	1.1/1.2/1.4/ 2.3/2.4	不设具体 课堂课时， 仅安排考 试 There are no class hours, only exams
	设计心理学 Psychology of Design	必修 Compulsory	2		第 5 学期 Semester 5	设计艺术学院 School of Design	1.1/1.3/1.4/ 2.2/2.3/2.4/ 2.5. 3.3/3.4	
	制造工艺及 CMF Manufacturing process and CMF	必修 Compulsory	3	1	第 6 学期 Semester 6	设计艺术学院 School of Design	1.3/2.1/2.3/ 3.1/3.3	

专业教育课程 Specialized Courses 共 49 学分，其中必修 45 学分，限修 4 学分，选修 0 学分 A total credits of 49, including 45 for compulsory courses, 4 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
专业核心课 Specialized Core Course	产品专题设计 I Design project I	必修 Compulsory	4	2	第 3 学期 Semester 3	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	产品专题设计 II Design project II	必修 Compulsory	4	2	第 4 学期 Semester 4	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	产品专题设计 III Design project III	必修 Compulsory	4	2	第 5 学期 Semester 5	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	设计创意工作坊 A Creative design workshop A	必修 Compulsory	1.5	1	第 3 学期 Semester 3	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	1.实验室 安负责；2. 不设具体 课堂课时； 3.至少选 择 2 个产 品设计工 作坊。 1. The studio is responsible ; 2. There are no class hours; 3. Select 2 product design workshops at least
	设计创意工作坊 B Creative design workshop B	必修 Compulsory	1.5	1	第 4 学期 Semester 4	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	设计创意工作坊 C Creative design workshop C	必修 Compulsory	2	2	第 5 学期 Semester 5	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	交互设计 Interactive Design	必修 Compulsory	4	3	第 4 学期 Semester 4	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5	
	数据可视化 Data visual design	必修 Compulsory	4	3	第 5 学期 Semester 5	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	

专业核心课 Specialized Core Course	服务设计与商业规划 Service design and Business planning	必修 Compulsory	4	3	第 5 学期 Semester 5	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	交通工具设计 Vehicle Design	必修 Compulsory	4	3	第 6 学期 Semester 6	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	智慧城市与社会创新 Smart city and Social innovation	必修 Compulsory	4	2	第 6 学期 Semester 6	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	智能设计 Intelligent Design	必修 Compulsory	4	2	第 6 学期 Semester 6	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	传统文化与产品创新 Traditional culture and Product innovation	必修 Compulsory	4	2	第 7 学期 Semester 7	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
专业限选课 Specialized Restricted Courses	交互用户体验 Interactive User Experience	限修 Distributional Elective	4	2	第 7 学期 Semester 7	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	限修 1 门, 4 学分 Limited to 1 course, 4 credits
	智能座舱 HMI 人机交互设计 Human-Machine Interaction in the Cockpit and Applicable Design		4	2	第 7 学期 Semester 7	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5	
	未来出行 Future Mobility		4	2	第 7 学期 Semester 7	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	
	智能产品拓展设计及应用 Intelligent Product Expansion Design and Application		4	2	第 7 学期 Semester 7	设计艺术学院 School of Design	1.1/1.3/1.4/ 1.5/1.6/2.1/ 2.2/2.4/3.1/ 3.4/3.5	

实践教学环节 Practice Courses 共 17 学分，其中必修 17 学分，限修 0 学分，选修 0 学分 A total credits of 17, including 17 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、社会与文化素质与实践、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	美术写生实习 Art sketching practice	必修 Compulsory	1	1	短 1 学期 Short Semester 1	设计艺术学院 School of Design	1.5/2.1/2.2/2.7/2.8/2.9/3.5/3.6	
	认识实习 Cognitive practice	必修 Compulsory	2	2	短 2 学期 Short Semester 2	设计艺术学院 School of Design	2.1/2.3/2.5/3.1/3.3/3.5	
	工程训练 A Engineering training A	必修 Compulsory	2	2	短 2 学期 Short Semester 2	设计艺术学院 School of Design	1.1/1.3/1.4/2.1/2.2/2.3	
	产品设计实习 Practice of Product Design	必修 Compulsory	2	2	短 3 学期 Short Semester 3	设计艺术学院 School of Design	1.3/2.1/2.3/3.1/3.3/3.5	
	毕业设计(论文) Graduation Project (Thesis)	必修 Compulsory	8	8	第 8 学期 Semester 8	设计艺术学院 School of Design	1.5/1.8/2.1/2.5/2.6/2.7/2.8/2.9/3.3/3.4/3.5/3.6	
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	第 7 学期 Semester 7	设计艺术学院 School of Design	1.1/1.2/1.5/1.8/2.1/2.5/2.6/2.7/2.8/2.9/3.4/3.5	主持或参与结题至少 1 项 Leading or participation at least one project conclusion

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	1.2	

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	1.2	
	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	1.2	
学分总计 Total Credits			160					

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	
设计艺术学院		产品设计		23 级			
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	
设计调查程序与方法	DESI004512	4	必修	第 4 学期	用户调研与体验设计 学分 3 分 User Research and Experience Design;	课程名更符合实际需求	
产品专题设计 I	DESI000712	3	必修	第 3 学期	产品专题设计一 学分 4 分	课程名更符合实际需求	
产品专题设计 II	DESI000812	4	必修	第 4 学期	产品专题设计二 学分 4 分	保持该系列课程名称的一致性	
产品专题设计 III	DESI000912	4	必修	第 5 学期	产品专题设计三 学分 4 分	保持该系列课程名称的一致性	
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： 年 月 日		教授委员会意见： 经 2023 年 12 月 12 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 12 月 13 日			学院/中心 意见： 院长/主任 签名： 学院/中心（盖章）： 2023 年 12 月 13 日		

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	
设计艺术学院		设计学类		23 级		210	
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	
现代设计史		2.0	必修	第 2 学期	现代设计史 C	课程名更符合实际需求	

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： 年 月 日	教授委员会意见： 经 2023 年 10 月 19 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： 2023 年 10 月 19 日	学院/中心 意见： 院长/主任 签名： 学院/中心（盖章）： 年 月 日
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开课学院/中心 意见：（如变更课程非本单位需要填写本栏）

开课单位教学负责人 签名： 年 月 日