

Curriculum Standard

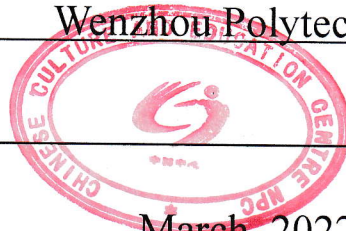
Curriculum: Courtyard Design

Major: Environmental Art Design

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Checker: _____

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“Courtyard Design”

Professional Teaching Standard

Curriculum: Courtyard Design

Credit: 4

Class Hour: 68

Major: Environmental Art Design, Landscape Design, Architecture Design

1. Preface

1.1 Position definition

Courtyard Design is a compulsory course in Environmental Art Design, and it is also an elective course for Landscape Design, Architecture Design and other related majors to expand their professional fields and enhance their professional horizons. This course is guided by the skills and knowledge requirements for environmental design work, and focuses on cultivating students' practical ability. For basic theoretical knowledge, the principle of "practicality first, necessity and sufficient" is adopted, and basic skills training runs through the course throughout. Through the study of this course, students should be able to understand the basic knowledge of courtyard design, master the common design thinking of courtyard design, lay a good foundation for the development of professional ability.

1.2 Instructional design

Students can understand the background knowledge learning the concept and historical development of landscape design, master the basic expressive techniques of landscape design through technique practice. Furthermore, design thinking would be initially trained and polished through modeling design training, field investigation and design. Through the study of this course, students can directly apply the knowledge learned into practice, master the basic knowledge of landscape design, the expression method of landscape elements, space composition design and some basic methods of introduction of landscape design, and develop certain innovative thinking ability and practical ability.

The standard of this course is employment-oriented, and the teaching content of this course is determined according to the analysis of the vocational ability of the industry and enterprises and closely combined with the examination requirements of the vocational qualification certificate. Each course is matched with an appropriate amount of practical training exercises, combined with the content of the lecture to complete skills training and simple design. With typical cases as the carrier, students can deepen their understanding and application of professional knowledge and skills in project practice, and cultivate their comprehensive professional ability.

2. The Targets of course

2.1. Overall Target

According to the relationship of courtyard and architecture, training projects are divided into four parts, including the terrace space design, the roof garden design, the villa garden design and chamber design. Through the practical design process, students would preliminary master

landscape design skills and related theory knowledge, enhance design skills, cultivate the quality of honesty, hard work and cooperation, establish comprehensive, cooperation and unity consciousness, for the development of professional ability to better serve the career.

2.2. Specific Target

2.2.1 Ability

- 1) Master the process of courtyard design process;
- 2) Be able to master the design method and skills of design terrace landscape;
- 3) Be able to master the design method and skills of design roof garden landscape;
- 4) Be able to master the design method and skills of design villa garden landscape;
- 5) Be able to master the design method and skills of design chamber landscape;

2.2.2 Knowledge

- 1) Understand the basic theories and methods of courtyard design;
- 2) Understand the unique characters of various design styles;
- 3) Understand the character of terrace space and design elements related to the space ;
- 4) Understand the character of roof garden space and design elements related to the space;
- 5) Understand the character of villa garden space and design elements related to the space;
- 6) Understand the character of chamber space and design elements related to the space;
- 7) Build a sense of space and scale;

2.2.3 Characteristics

1) Firmly support the leadership of the COMMUNIST Party of China (CPC) and China's socialist system, practice core socialist values under the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and have a deep sense of patriotism and national pride.

2) Uphold the Constitution, abide by the law and discipline, worship morality and goodness, be honest and trustworthy, respect life, love labor, fulfill moral standards and codes of conduct, and have a sense of social responsibility and social participation.

3) Quality awareness, environmental awareness, safety awareness, information literacy, craftsman spirit, innovative thinking.

4) Have the courage to struggle, optimistic, self-management ability, career planning consciousness, strong collective consciousness and team spirit.

5) Have a healthy body, psychology and sound personality, master basic sports knowledge and 1-2 sports skills, raise good fitness and health habits, as well as good behavior habits.

6) Have certain aesthetic and humanistic qualities, can form 1~2 artistic specialties or hobbies.

7) Improve students' awareness of teamwork;

8) Improve students' communication skills and project reporting skills;

9) Help students develop a serious and rigorous attitude;

10) Cultivate students' self-study habits.

3. Content and Demand

Serial Number	Tasks	Subject Introduction	Event Design	hour
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Project 1	Terrace design	<p>Contents: Terrace space design project- through the landscape design of the terrace, corresponding outdoor activity space is provided for specific users, and the relationship between the terrace at different directions and indoor and outdoor movement, sight line, landscape and so on is improved. The form of space enclosure strives for diversity and individuality, and enriches the visual effect while protecting privacy.</p> <p>Knowledge Requirements: 1) Understand the concept and existing form of terrace; 2) Understand the spatial scale of the ergonomic concept; 3) Understand the design essentials of the terrace</p> <p>Skills Requirements: 1) Be able to complete the design of the terrace scheme Be able to express solutions using Lumion technology</p>	<p>1)General Layout 2)Analysis diagram 3)Design Portfolio(including design proposal, rendering photos) 4)Report video</p>	12
Project 2	Roof Garden design	<p>Contents: Roof garden design project- The landscape design of the roof site on the top floor of an office building is planned. Roof live load is 500kg/m2. The office building is located in an industrial gathering area of Wenzhou, with a total of 5F. 5F is public space. They are mostly IT-related studios and companies specializing in game design, operation and development.</p> <p>Knowledge Requirements: 1) Understand the structure of the roof garden 2) Understand the design method of the roof garden 3) Understand limitations and essentials of roof garden design</p> <p>Skills Requirements: 1)Be able to complete the design of roof</p>	<p>1)General Layout 2)Design display board (including essential analysis diagrams,design proposal,rendering photos) 3)Preliminary design construction drawing in CAD forms 4)Report video</p>	16

		<p>garden scheme</p> <p>2)Be able to initially complete the construction drawing of roof garden</p>		
Project 3	Villa garden design	<p>Contents:</p> <p>Villa garden design project-</p> <p>A private garden, located in the west of Hangzhou city in a large landscape villa, surrounded by mountains, good vegetation, quiet environment, is a collection of leisure, health and ecological living as one of the country style villa, villa area of about 684 square meters, the building uses modern simple style. The north side of the courtyard can overlook the distant mountains and villas at the foot of the mountain, the south side is the main driveway of the community, and the east and west sides are adjacent to other villas. The current situation of the site gentle terrain, broad vision</p> <p>Knowledge Requirements:</p> <p>1) Understand the character of villa garden space;</p> <p>2) Understand the skills of the villa garden space design;</p> <p>3) Understand elements of project construction cost.</p> <p>Skills Requirements:</p> <p>1)Be able to complete the design of villa garden scheme;</p> <p>2)Be able to initially complete the construction drawing of villa garden;</p> <p>3)Be able to do the preliminary estimates of project costs.</p>	<p>1)General Layout</p> <p>2)Design portfolio (including essential analysis diagrams,design proposal,rendering photos)</p> <p>3)Preliminary constructions drawing in CAD forms</p> <p>4)Construction budget</p> <p>5)Simulation report</p>	20
Project 4	Chamber space	<p>Contents:</p> <p>Chamber space design project-</p> <p>Located in two inner courtyards of a 5-storey office building in Wenzhou, the project consists of two rectangular Spaces of 20 x 11 meters, visible to all offices. These courtyards are designed to provide soft and comfortable natural light for the office area, but they also</p>	<p>1)General Layout</p> <p>2)Design portfolio (including essential analysis</p>	20

	<p>lead to a dark environment and poor ventilation. The design aimed to create a good tour experience space as well as inspiring overlook effect .</p> <p>Knowledge Requirements:</p> <p>1) Understand the character of chamber space;</p> <p>2) Understand the standards of the chamber space design;</p> <p>3) Understand the design points of chamber space.</p> <p>Skills Requirements:</p> <p>1)Be able to complete the design of chamber space scheme;</p> <p>2)Be able to do the site analyse;</p> <p>3)Be able to do the whole set construction drawings.</p>	<p>diagrams,design proposal,rendering photos)</p> <p>3)The whole set design construction drawings in CAD forms</p> <p>4)Construction budget</p> <p>5)Simulation report</p>	
Total			68

4. Feasible suggestion

4.1. Selection and Complied Suggestion of Coursebook

4.1.1 Selection of Coursebook

According to the course objectives, students' reality and the course's professional skills, the teaching resources of this course should be composed of text teaching materials, multimedia courseware, design results, video resources and other supporting materials. With written textbooks as the core, we provide various learning support services with different connotations and forms to complete teaching tasks and achieve teaching objectives together.

Reference material:

“Illustration of Architectural Exterior Space Design Essentials”[j]. Ed. Takayo Inoku, translated by Liu Yunjun, China Architecture and Building Press.

“Landscape Planning and Design”, Zhou Chumei (Ed.), Chongqing University Press.

“Saying garden” by Chen Congzhou, Tongji University Press;

“Fundamentals of Landscape Design”, Edited by Liao Jianjun, Hunan University Press;

“Interior Greening and Interior Design” by Hou Ning, China Electric Power Press;

“On the Combination of Architectural Space”, Peng Yigang, China Architecture and Building Press;

4.1.2 Complied Suggestion of Coursebook

1) Select the core knowledge according to the curriculum standards and pay attention to the formation of basic concepts of chemistry;

2) Draw materials from students' life experience and the reality of social development;

3) Provide diversified experimental content, pay attention to the cultivation of students' practical ability;

4) The types of exercises should be diversified, and the proportion of open questions and practice questions should be increased;

5) According to students' psychological characteristics and learning rules, reasonably organize and arrange the contents of teaching materials;

6) Use vivid and diverse presentation ways to give play to the various educational functions of teaching materials.

4.2. Suggestions for Teaching

1) Take landscape architecture design workflow as the main line and work task-oriented, and arrange teaching by connecting major knowledge and skill points through real projects of enterprises;

2) Group teaching method is adopted to implement various tasks, and attention should be paid to grouping students of different types into groups to cultivate students' teamwork spirit;

3) Build a platform for schools and enterprises to participate in classroom teaching, use Internet + to evaluate and display students' learning achievements, bring enterprise experts into the teaching platform, and educate talents jointly by schools and enterprises;

4) Integrate the relevant content of national professional certification requirements for landscape architects into the course teaching content.

4.3 Suggestion on Teaching Examines and Assessments

The teaching assessment methods are as follows:

Assessment indicator composition: practical operation assessment (40%), process assessment (40%), and daily performance (20%).

Practical operation assessment: final examination, knowledge points will be tested;

Process assessment: Students are required to complete the project designated by the teacher every week, and each team will hand in their works or PPT report. After teachers' comments, students will be evaluated and scored according to the submitted materials and performance in communication.

Daily performance: attendance and question answering.

4.4 Development and Utilization of Curriculum Resources

1) Pay attention to the development and application of training instructions and teaching materials.

2) Pay attention to the development and utilization of curriculum resources and modern teaching resources, these resources are conducive to the creation of vivid working situation, stimulate students' interest in learning, promote students' understanding and mastery of knowledge. At the same time, it is suggested to strengthen the development of curriculum resources, establish the database of multimedia curriculum resources, and strive to realize the sharing of multimedia resources across schools, so as to improve the utilization efficiency of curriculum resources.

3) Actively develop and utilize network course resources, make full use of network information resources such as electronic books, electronic journals, databases, digital libraries, educational websites and electronic forums, so as to transform teaching from single media to multiple media; Teaching activities change from one-way transmission of information to two-way exchange; Students are moving from solitary learning to cooperative learning. At the same time, we should actively create conditions to build a distance teaching platform and expand the interactive space of course resources.

4) Industry-university cooperation to develop experimental and practical training course resources, make full use of typical enterprise resources in the industry, strengthen industry-university cooperation, establish practice and practical training bases, practice and study



alternately, meet the needs of students' practice and training, and create opportunities for students' employment.

5) Establish this major and open the training center to enable it to have the functions of on-site teaching, experimental training and vocational skill verification, so as to realize the integration of teaching and practical training, teaching and training, teaching and textual research, and meet the requirements of students' comprehensive vocational ability cultivation.

4.5 Suggestions on teaching conditions

1) Pay attention to the construction of situational landscape design training environment, including the use of hardware scene environment and related landscape architecture design case base.

2) Pay attention to the development and utilization of course resources and modern teaching resources, actively develop and use network course resources, stimulate students' interest in learning, make students' learning is no longer limited to the classroom, promote students' understanding and mastery of knowledge.

3) Industry-university cooperation to develop practical training course resources, make full use of typical enterprise resources in the industry, strengthen industry-university cooperation, establish practice and training bases, practice and study alternately, meet the needs of students' practice and training, and create opportunities for students' employment.

4.6 Other instructions

This course still needs to continue to develop and improve, according to the data analysis and application of innovative models to reform teaching methods.