

Southwest University

Doctoral student training scheme

First-level discipline	<u>Horticulture</u>
Second-level discipline	<u>Fruit Science、Olericulture、 Ornamental horticulture、Tea Science</u>
Second-level discipline code	<u>090201、090202、 0902Z1、090203</u>

Graduate school of Southwest University

1. Brief introduction of subject

Horticulture is an applied subject which is based on agricultural biology. It's a comprehensive subject that is aimed at solving the industry problems of germplasm resources of horticultural crops, growth and development, genetic law, reproduce, cultivation, breeding, storage, processing, pest control and gardening. Horticulture contains 5 majors, including fruit science, olericulture, ornamental horticulture, tea science and facility horticulture. This subject applies modern biology techniques to reveal the biological laws of horticultural plants, innovate germplasm resources and breed new varieties. Based on environmental control technology, horticulture also studies product nutrition, storage, preservation and processing technology systems.

2. Scope of application

First-level discipline	Research directions
Horticulture	Genetic breeding and biotechnology of horticultural plants
	Physiology and cultivation of horticulture plant
	Landscape engineering and technology
	Horticulture phytochemistry and processing

3. Training objectives

According to the "Basic Requirements for Doctoral and Master's Degree of First-level Disciplines", the horticulture project aims to cultivate talents with knowledge acquisition, the ability to conduct a scientific research independently, and innovative ability.

4. Length of study

The length of study of full-time doctoral student is normally 4 years and no more than 6 years. If achieving the expected goal, the length of study can be shortened to 3 years.

5. Cultivating mode

5.1 Mentoring mode

A mentor group is composed of mentors with different discipline backgrounds. Based on the graduate training program, a personal training and development plan for doctoral students is formulated to train graduate students.

5.2 Students' Learning Mode

Students' learning mode contains course study, academic training, and academic communication. In addition, the students should report regularly to their tutor.

6. Compulsory task

6.1 Curriculum study

Type	Course No.	Courses	Semester	Total hours	credit	Assessment type	Remark	
Required course	Public	0111000001015	Chinese	2-3	108	3	examination	International students
		0111000001016	China Panorama	2-3	72	2	examination	International students
		0111090200001	Study of Chinese and foreign main documents	1	36	2	test	
		0111090200002	Biological engineering	1	54	2	test	
	specialized course	0111090200003	Progress in horticultural science	1	54	2	test	(choosing 1 course)
		0111090200004	Landscape architecture frontiers	2	18	1	test	
		0111090200005	Ecological frontier	1	36	2	examination	
selective	0111090200010	New technologies and methods of modern horticultural research	1	36	2	test		
	0111090200011	Processing and comprehensive utilization of horticultural products	2	36	2	test		
	0111090200012	Research Methodology for Landscape Architecture	2	27	1.5	test		

	0111090200013	Habitat environmental science	1	36	2	test	
Credit required	Full-time academic doctoral student must earn at least: <u>17</u> credits; Minimum credits for required courses: full-time academic doctoral student must earn <u>15</u> credits, of which 4 credits are for academic activities and practical training						
Remark	All courses are taught in Chinese.						

6.2 Academic activity

During the doctoral period, the applicants shall participate in academic conferences, academic lectures, cutting-edge lectures and academic seminar at least 15 times and make presentation 3 times. After participating in academic activity or making presentation, students should submit the report of the related academic activity to the graduate student information management system. The tutor will review it. If students meet the academic requirements, they can earn 2 credits.

6.3 Practical training

Practical training contains scientific research practice, teaching practical training and social practice. If students meet the requirements, they can earn 2 credits.

6.4 Dissertation

6.4.1. Requirement for thesis proposal

In principle, PhD student must pass a comprehensive subject examination before starting a doctoral dissertation research.

6.4.2 .Requirement for topic selection

In order to ensure the quality of the thesis introduction, doctoral students must comprehensively and systematically collect and organize the literature of this discipline at home and abroad in recent years before determining the topic of the dissertation.

6.4.3. Requirements for thesis content

The thesis content should be related to theory or applied research of horticultural plants.

6.4.4 Workload requirements

In principle, students shall be engaged in the research related to their dissertations for no less than two years.

6.4.5 Requirements for academic norms

The dissertation must comply with the basic format of the dissertation stipulated by the State and the "Measures for the Evaluation and Defense of Postgraduate Thesis of Southwest University

6.5 Writing standards and format requirements

Please refer to the requirements for writing and printing doctoral and master dissertation of Southwest University.

7. Quality control procedures and requirements

7.1 Making a study plan

The study plan is made by the student, tutor and the mentor group and should be completed within 1 month of enrollment.

7.2 Course assessment

The assessment of the course can be conducted in the form of oral, written examine or course paper. The teacher of the related course will be responsible for the assessment.

7.3 Assessment of academic activities

Within three working days after the academic activity ends, the students should submit the report to the graduate student information management system.

7.4 Practical training assessment

After the practical activity, students should submit the report of the related practical activity to the graduate student information management system.

7.5 Comprehensive examination

The examination will be conducted before the end of the second semester after enrollment. There are two conclusions, Pass and Fail. Those who fail the comprehensive examination cannot proceed to the next step.

7.6 Academic dissertation

Please go through the following procedures: topic selection of thesis, thesis proposal, midterm evaluation, duplicate checking (repetition rate should not exceed 15%), pre-defense (5 or more experts will participate in the pre-defense), concealed evaluation (3 specialist), and defense (5 or more experts will participate in the defense). Those who get two-thirds or more vote can pass the defense.

In principle, the thesis writing and defense must be in Chinese.

7.7 Requirements for academic achievements

Defense qualification is only applicable to the applicants who have published a paper (or the paper has been formally accepted) with Southwest University as their primary authorship holder during their doctoral program, the content of the paper should be closely related to the research of their dissertation, and the paper with innovative results must be published on the international journal in the field of horticulture.