

# 药理学科学学术学位博士研究生（留学生）培养方案

## Degree Requirements for Ph.D. Program

School of Pharmacy (International Students)

(代码: 1007 授 医学 学位)

(Program code: 1007 Degree Medical)

### 一、培养目标/Goals and objectives

为了培养学术型和实用型的药学专业高级专门人才。攻读本专业博士学位的国际研究生要求达到：Our Ph.D. program goal prepares students for academic careers and for non-academic work in related fields. Students will acquire breadth and depth of knowledge in a field of study offered by school of pharmacy, demonstrate understanding and proficiency in the field, and write an original and significant research dissertation.

1. 熟悉中国概况，遵守中国法律法规，具有良好的道德品质，具有较强的科学精神、事业心和奉献精神，学风严谨。They should be familiar with the overview of China, abide by Chinese laws and regulations, have good moral character, in addition, have a strong scientific spirit, a dedication and contribution spirit and rigorous style of study.

2. 具有良好的学术道德伦理、严谨、勤奋、务实、创新的科学态度，具有独立从事科研工作的能力。Possess sound professional ethics, strict, diligent, pragmatic and innovative scientific attitude, and possess the ability to undertake independent scientific research;

3. 较系统掌握本学科坚实的基础理论和专业知识。 Have a solid theory foundation and systematic and in-depth professional knowledge;

4. 能在本学科科研领域取得创新性研究成果； Make innovative achievements in the specialty field or expertise.

### 二、主要研究方向 Main Research Fields

1. 药物化学/Medicinal Chemistry

2. 药剂学/Pharmaceutics

3. 生药学/Pharmacognosy

4. 药物分析学/Pharmaceutical Analysis

5. 药理学/Pharmacology

6. 中药与天然药物学/Traditional Chinese drug and

Natural Pharmacology

### 三、学习年限及培养方式 Study years and program time limit

本学科(专业)硕士起点的学术学位博士研究生的基本学习年限为4年,最长学习年限(含休学)不超过6年。

培养方式为全日制,非定向。

Completion of the Ph.D. degree requires a minimum of FOUR years of full-time study, and the maximum study years for a doctoral student is SIX years (including schooling suspension)

### 四、授课语言 Language of instruction:

授课语言为中文或者英文

The language of instruction is Chinese or English.

### 五、学分要求 Course and credit requirements

硕士起点的学术学位博士总学分要求≥32学分,其中学位课程学分≥13学分,研究环节学分≥19学分。/The Ph.D. from a master's program requires a total of minimum of 32 credits, which include a minimum of 13 credits for degree courses and 19 research credits.

总学分/ Credits in Total	≥32 credits	
学位 课程 /Degree courses credits	≥13 credits	校级公共必修课程/University compulsory courses ≥7 credits, including: 《中国概况》(A Survey of China) (2 credits), 《汉语》(Chinese Language) (4 credits), 《国际学生新生导入课》(Orientation Course for International Students) (1 credit).
		博士专业课程 4 学分/Research area courses 4 credits
		跨一级学科课程 2 学分/ Outside first disciplinary course 2 credits
研究 环节 /Research h progress credits	≥19 credits	开题报告 1 学分/Dissertation proposal: 1 credit
		参加国内外学术会议并提交论文 1 学分//Participate and submit paper at academic conferences held in China or overseas: 1 credit
		论文中期进展报告 1 学分/ Dissertation Interim Report 1 credit

		发表学术论文 1 学分/Publication 1 credit
		博士学位论文 15 学分/ Dissertation 15 credits
其它 /Additional al courses	不计学分 /non-credit	补修课程、任选课程只计成绩，不计学分/ Grades of courses in this category will be presented on the transcript but no credit will be granted.

## 六、课程设置、研究环节及学分分配 Courses and research credits

### 药理学科学术学位博士研究生课程设置

类别 课程	课程代码	课程名称	是否 核心 课程	学时	学分	季节	开课单位	备注	
学位课程	公共必修课程	922.581	汉语（同济）/Chinese Language (Tong Ji)		96	4	春季	国际教育学院	
		922.582	中国概况(同济)/A Survey of China (Tong Ji)		32	2	秋季	国际教育学院	
		922.583	国际学生新生导入课（同济）/Orientation Course for International Student (Tong Ji)		16	1	秋季	国际教育学院	
	博士专业选修课程	514.800	应用药理学 /Applied Pharmacology	是	16	1	春季	药学院	≥4 学分
		514.802	药学研究进展/Progress of pharmaceutical research	是	48	3	春季	药学院	
		514.803	药物立体化学 /Drug stereochemistry	是	32	2	秋季	药学院	
	跨一级课程	514.516	生物偶联技术 /Bioconjugate techniques		32	2	秋季	药学院	≥2 学分
		514.517	药物经济与政策研究 /Pharmacoeconomics and drug policy research		32	2	秋季	药学院	
		513.503	临床营养学 /clinical nutriology		32	2	秋季	公共卫生学院	
		20170081	Medical Biochemistry			2.5	秋季	基础医学院	
		513.701	职业危害与健康 /occupational hazardous and health		32	2	秋季	公共卫生学院	
	研究环节	650.801	文献阅读与选题报告 /literature review and dissertation proposal			1		药学院	19 学分
		650.802	参加国际学术交流或国内重要学术会议并提交论文/ Participate and submit paper at academic conferences held in China or overseas			1			
		650.803	论文中期进展报告 /Dissertation Interim Report			1			
		650.804	发表论文/ Publication			1			
650.805		学位论文/ Dissertation			15				

## 七、研究环节要求 **Research progress**

1. 博士生应坚持严谨的科学态度，具备良好的科学精神，严格遵守学术规范和学术伦理。博士生应在规定的学习年限内按本学科/专业培养方案完成课程学习和研究环节所规定的学分。PhD candidates should adhere to a rigorous scientific attitude, have a good scientific spirit, and strictly abide by academic norms and ethics. The students should complete the required credits for course study and research in accordance with the PhD program within the prescribed period of study.

2. 博士研究生的培养实行导师负责制，组成以博士生导师为组长的博士研究生指导小组，负责博士研究生的培养和考核工作。博士生应在导师指导下独立完成博士学位论文，博士生是学位论文质量的直接责任人。The education mode for PhD candidates is adopted to the supervisor-responsible system by establishing the supervisor-headed instruction group. The supervisor is responsible for the cultivation and assessment of the PhD candidates. PhD candidates should complete their dissertations independently under the guidance of their supervisors, and they are directly responsible for the quality of themselves dissertations.

3. 博士论文开题、中期考核、预答辩、论文修订报告和申请答辩的具体要求：  
Specific requirements for dissertation proposal, dissertation Interim Report, pre-defense

(1) 论文开题报告。博士生应在第 2 学期内完成开题报告，具体包括以下内容：①课题的来源、意义；②课题的国内外研究概况及发展趋势；③课题的研究内容和技术方案；④理论与实践方面预计的创造性成果；⑤预期成果；⑥主要参考文献。Dissertation proposal: PhD candidates are supposed to complete a dissertation proposal during the 2nd semester. Dissertation Proposal (1 credit) should include: ①The source and significance of the topic; ②Literature review of the research at home and abroad regarding the topic; ③The research

content, planned research method and technical skills; ④ The anticipated innovative achievements in theoretical and practical aspects; ⑤ Anticipated results; ⑥ References.

(2) 论文中期考核。博士生一般在第 5 学期前参加中期考核，撰写中期报告，向博士生指导小组或有关学者、专家报告研究工作成果，听取质疑与商讨改进意见。通过考核的方可继续开展研究工作，撰写学位论文。达不到相应标准的将进行分流淘汰。 Dissertation Interim Report: PhD candidates are supposed to complete mid-term assessment and finish the dissertation interim report, to the instruction group or experts the research results of the degree dissertation, and listen to advice and make revision. The dissertation shall not be continued before acceptance of the innovative achievements of the research. Failing to reach the standards will be eliminated.

(3) 论文预答辩。为了提高送审论文质量，在论文送同行评议前，参照正式答辩的形式举行博士学位论文预答辩，重点对论文是否达到博士学位论文水平以及论文格式和内容进行审核，并由预答辩委员会做出是否送审的决定。预答辩未通过的论文，不得送外评审。 Pre-defense In order to improve the quality of the dissertation submitted for blind-review, the pre-defense of the doctoral dissertation shall be held follow the formal defense way before blind-review. The review shall focus on whether the dissertation reaches the level of the doctoral dissertation, as well as the format and content of the dissertation, and the decision of whether to submit for blind-review or not shall be made by the pre-defense committee. Dissertation that fails to pass the pre-defense shall not be sent for blind-review.

4. 博士学位论文应满足过程管理要求。博士学位论文应满足论文选题、中期检查、预答辩、学位论文相似度检测、评审和答辩等管理要求。博士生答辩通过后的学位申请需通过学院学位审议委员会审查、校学位评定分委员会审核（含重点审核）、学校学位评定委员会审批。其中，审查、审核或审批未通过时，博士生应根据各级委员会提出的具体意见认真修改论文。 Dissertations should meet the requirements of all above progress management. Doctoral dissertation

should meet the all progress management requirements include dissertation proposal, mid-term assessment, pre-defense, plagiarism, blind-review and defense. After defense pass, the degree application shall be examined by the Degree Review Committee of the School, the University Degree Review Subcommittee (including the focus review), and the University Degree Assessment Committee. If it is not passed by one part of it, PhD candidates should revise the thesis carefully according to the specific suggestion put forward by the committees at all levels.

5. 博士研究生参加学术活动要求博士生应在申请答辩前，至少至少听 10 次学术报告，并参加 1 次国内外学术会议，并提交学术论文、论文摘要（以会议论文集收录为准）或学术海报。撰写学术会议报告。Before applying for defense, PhD candidates should attend at least one academic conference in China or overseas, and submit academic papers, abstracts (collected by conference collection) or posters. Complete an academic conference attendance report.

## 八、学位论文要求 **Dissertation**

1. 博士学位论文应满足规范性要求。博士学位论文应是一篇系统、完整的学术文章，内容结构完整、逻辑清晰、论述有据、数据真实、语句通顺，工作量饱满，满足学校学位论文撰写要求。Doctoral dissertations should meet normative requirements. Doctoral dissertation should be a systematic and complete academic article, with complete content structure, clear logic, evidence-based discussion, true data, smooth sentences, and full workload.

2. 博士学位论文应满足学术成果创新性要求。学位申请人的导师是其学术创新成果审查的第一责任人，博士生的学术创新成果必须由导师审核同意后方可发表（发布）。学位申请人发表（发布）的学术创新成果应是其学位论文的组成部分，是学位申请人在导师指导下独立完成的科研成果，以华中科技大学为第一署名单位，以申请人为第一作者或第二作者（导师为第一作者）。Doctoral dissertations should meet the innovation requirements of academic achievements. The supervisor of the degree applicant is the first responsible

person for the review of the degree applicants' academic innovation achievements. The PhD candidates' academic innovation achievements must be approved by the supervisor before they publish. The academic innovation published by the applicant should be an integral part of doctoral dissertation. And it is a research achievement that completed independently by the applicant under the guidance of supervisor, with Huazhong University of Science and Technology as the first undersigned unit and the applicant as the first or second author (the supervisor as the first author).

3. 博士研究生申请论文答辩和资格审查。博士研究生申请论文答辩的基本条件：①修完所规定的课程学分；②完成论文选题报告；③完成论文中期报告并通过考核；④论文研究工作取得了符合博士学位论文水平要求的创新性研究成果；⑤完成学位论文的撰写；⑥通过论文的预答辩；⑦通过论文校外专家盲审；⑧通过论文校内外专家答辩评审。 Application for doctoral dissertation defense and qualification review: Basic requirements of dissertation defense application: (1) Get all the required credits; (2) Complete the dissertation proposal; (3) Complete the dissertation interim report; (4) The innovative research work can meet the requirements of innovative achievements for PhD degree. (5) Complete the dissertation writing; (6) Pass the pre-defense; (7) Pass outside experts blind-review.

4. 论文修订报告博士学位论文通过答辩以后，必须完成论文修订报告。该报告应以点对点逐一说明的形式，对匿名评阅人及答辩委员会委员的意见做出详细答复，并重点对论文中的修改部分做出详细说明。导师应对修订报告把关，并签名同意。论文修订报告是学校 and 学院学位委员会审核学生申请材料的重要资料，审核不合格的，将驳回学生的学位申请。 The degree applicants should complete two revise reports after defense. The reports shall provide detailed replies and revise explanation to the all comments of the anonymous reviewers and the members of the defense committee in the relevant form. The supervisor should check and sign on the revise reports. The two revise reports are the important documents for the University and School Degree Committee for reviewing candidates' application. If the revise reports are failed to pass the Degree-

Committee-Meeting, the candidates' degree application will be rejected.

## 九、毕业结业及授予学位要求/Diploma and Degree requirements

1.毕业：研究生在规定的学习年限内，完成培养方案规定内容，考核合格，且学位论文答辩通过，经院学位审议委员会或党政联席会审核，学校审批，准予毕业并发给毕业证书。 Within the prescribed period of study, graduate students who have completed the training program and passed the thesis/dissertation defense, be reviewed by the Academic Degree Assessment Sub-committee or the Party-government Joint committee, be approved by the university, can be granted the graduation certificate.

2.授予学位：达到学位授予条件的，可按程序申请学位。未达到学位授予条件的，毕业后一年内若达到学位授予条件，可按程序申请学位。毕业后申请学位仅限一次。 Students who meets the requirements for granting academic degrees, can apply for an academic degree according to the procedures. Those who do not meet the requirements of degree conferment can apply for a degree according to the procedures, if they meet the requirements of degree conferment within one year after graduation. Students only have one chance to apply for a degree after graduation.

3.结业：研究生在校学习已满基本学习年限且在最长学习年限内，未达到毕业要求但符合结业要求的，可申请结业。具体按学校学籍管理有关规定执行。 Within the maximum study period, students who have completed the basic study period, fail to meet the graduation requirements but meet the completion requirements, can apply for completion certificate. It shall comply with the relevant regulations of the university. It shall be implemented according to the relevant regulations of the university's management of student status.

## 十、其它要求 Other requirements

其它培养环节执行学校有关规定。 The relevant provisions of the university are implemented for the other training aspects.



