

# 水力学及河流动力学 (081502)

## Hydraulics and River Dynamics

学科门类：工学（08） 一级学科：水利工程（0815）

Discipline Category: Engineering (08)

First-Class Discipline: Water Conservancy (0815)

### 一、学科简介

本学科隶属于国家“双一流”建设学科水利工程学科，是河海大学传统优势学科之一，在国内外颇具影响，为国家水利建设作出了巨大贡献。1981年成为首批具有博士、硕士学位授予权的学科，1994年批准为江苏省首批重点学科；1999年被评为省级优秀学科梯队，连续被列为国家“九五”、“十五”、“211工程”重点建设学科，2007年批准为国家重点学科。现有专任导师40人，其中，教授16人，博士生导师13人，国家级人才人选7人。研究领域包括河流管理与生态环境、工程水力学理论与应用、水沙运动理论与工程应用、工程渗流及地下水环境、计算水力学及水利信息技术等方面，在平原河网水动力学、水工水力学、工程渗流及地下水环境等方面形成了明显优势和学科特色。近年来，学科主持或承担了多项国家级重点课题和基金项目，获国家科技进步奖2项、全国创新争先奖1项、省部级科技奖11项，获江苏省优秀博硕士论文11篇。学科具有显著的传统理论与现代科学技术相结合、地表水与地下水相结合、一般水力学问题与生态环境水力学问题相结合等特点和优势，具有良好的发展前景。

毕业生主要就业单位有科研院所、高等学校、政府机关、流域管理机构、勘测规划设计部门等。

#### I. Discipline Overview

The discipline is one of the traditional advantageous disciplines of Hohai University, affiliated to the national "double First-class" construction discipline of hydraulic engineering discipline. It has great

international influence and has made great contributions to national water conservancy construction. In 1981, it became one of the first disciplines authorized to confer doctor's and master's degrees. In 1999, it was rated as the provincial Excellent Discipline team, and successively listed as the key construction discipline of the national "9th Five-Year Plan" "10th Five-Year Plan" and "211 project". In 2007, it was approved as the national key discipline. Now there are 40 full-time faculty members, including 16 professors, 13 doctoral supervisors and 7 national talent candidates. Research areas include River Management Aquatic Ecology and Environment, Theory and Applications of Engineering Hydraulics, Flow Sediment Transportation Theory and Its Applications in River Engineering, Engineering Seepage and Groundwater Environment, Computational Hydraulics and Hydroinformatics, etc., forming the obvious advantages and disciplinary characteristics in the Plain River Network Hydrodynamics, Engineering Hydraulics, Engineering Seepage and Groundwater Environment, etc. In recent years, the discipline has led or undertaken a number of national key projects and grant projects, won twice National Science and Technology Progress Award, once National Innovation Prize, 11 times provincial and ministerial science and technology awards, and 11 times excellent doctoral and master's theses in Jiangsu Province. The discipline has obvious characteristics and advantages in combination, such as traditional theory with modern scientific technology, surface water with groundwater, general hydraulics with ecological environment hydraulics, and has a good prospect for development.

The main employment units of the graduates are research institutions, colleges and universities, government departments, watershed management companies as well as surveying, planning and design consultancies, etc.

## 二、培养目标

1. 河海大学博士层次外国留学生应当在水力学及河流动力学领域中具有宽阔的国际视野，能够在世界范围内创新运用和发展水力学及河流动力学的理论、技能和方法，在国际事务中具有竞争优势。

2. 以英语为专业教学语言的学科中，外国留学生毕业时，博士研究生的中文能力应当至少达到《国际汉语能力标准》三级水平。

3. 本专业博士留学研究生旨在培养水力学及河流动力学领域的高层次人才。培养掌握水力学及河流动力学领域坚实宽广的基础理论及系统深入的专门知识；熟悉本学科的现状和发展趋势以及所研究方向的最新进展，具有独立、创造性地从事本学科科学研究和有效解决工程实际问题的能力，能从事水利工程项目的科研、规划、勘测、设计、施工、管理或其他工程技术工作；能够熟练应用计算机开展科学研究和英语进行学术交流，了解中国文化并初步具备汉语日常交流能力的高层次学术型人才。

## II. Training Objectives

1. International PhD graduates of Hohai University are expected to have broad international view in the relevant academic fields; to creatively apply and develop the theories, skills, and methodologies of the relevant disciplines in the world, and to obtain competitive advantage in the international academic affairs.

2. International PhD graduates must meet the requirement of Level 3 in Chinese Language Proficiency Scales upon graduation if they conduct their coursework in English.

3. The PhD program of this major aim to cultivate high-level talents in the fields of hydraulics and river dynamics. Cultivate and master the solid and broad basic theories and systematic in-depth expertise in the field of Hydraulics and River Dynamics; be familiar with the current situation and development trend of the discipline as well as the latest progress of the research direction, have the ability to independently and creatively engage in scientific research in the discipline and effectively solve practical engineering problems, be qualified for engaging in scientific research, plan, survey, design, construction management or other engineering and technical work of water conservancy projects; be able to skillfully apply computers to carry out scientific research and academic exchanges in English, high-level academic talents who understand Chinese culture and have initial Chinese daily communication skills.

### 三、主要研究方向

1. 工程水力学理论与应用
2. 水沙运动理论与工程应用
3. 河流管理与生态环境
4. 工程渗流及地下水环境
5. 计算水力学及水信息技术

### III. Research Directions

1. Theory and Applications of Engineering Hydraulics
2. Flow Sediment Transportation Theory and Its Applications in River Engineering
3. River Management Aquatic Ecology and Environment
4. Engineering Seepage and Groundwater Environment
5. Computational Hydraulics and Hydroinformatics

### 四、学制和学习年限

学术学位全英文博士留学研究生的标准学制为 4 年。实行弹性学制，学习年限最短不少于 3 年，最长不超过 6 年。

### IV. Number of Years Requirement

The PhD program typically requires 4 years to complete. However, the completing time may vary to 3 years as the minimum and 6 years as the maximum.

### 五、学分要求和课程设置

1. 学术学位全英文博士留学研究生课程总学分为 15 学分，其中学位课程为 10 学分，非学位课

程为 5 学分。另设教学环节。所有课程学习一般应在入学后 1 年内完成。

2. 汉语课每学分为 24 学时，中国概况课每学分为 18 学时，其他课程每学分为 16 学时。

3. 中国国情教育（水韵课堂）为系列专题讲座，要求学生按照要求完成规定的学习任务。

4. 对于汉语水平已达到毕业要求的学生，可申请免修汉语，具体要求详见留学生课程免修有关规定。

具体课程设置如下：

## V. Credit Requirements and Curriculum

1. International academic PhD students will complete 15 credits, 10 of which are from degree courses, and 5 of which are from non-degree courses. Students will also complete academic activities. Coursework will be completed in one year after registration.

2. Each credit of Chinese language course is 24 credit hours. Each credit of Introduction to China is 18 credit hours. For other courses, each credit is 16 credit hours.

3. “Water Harmony Lectures” is a series of seminars, which require students to complete the specified learning tasks.

4. For students who have met the Chinese language requirement for the PhD degree, Chinese language courses can be exempted, of which the details can be referred to in relevant regulations.

The specific curriculum is as follows:

## 水力学及河流动力学全英文学术型留学博士研究生课程设置

### Curriculum for English Taught International Academic PhD Students in Hydraulics and River Dynamics

课程类别 Category		课程代码 Course Code	课程名称 Course Name	学分 Credit	学时 Hours	开课学期 Term	备注 Remarks
学位课程 Degree Course 10 学分	公共课程 General Course	2022LD000001	汉语 I Chinese Language I	2	48	秋 Autumn	必修 Compulsory
		2022LD000003	中国概况 Introduction to China	2	36	秋 Autumn	
		2022LD110001	论文写作指导 Guide of Thesis Writing	2	32	秋、春 Autumn/ Spring	
	基础课程 Basic Course	2022LD880001	应用数学 Applied Mathematics	4	64	秋 Autumn	选修 2 学分 Optional 2 credits at least
		2022LD880002	动力系统、混沌与分形 Dynamic Systems, Chaos and Fractal	3	48	春 Spring	
		2022LD880003	随机微分方程 Stochastic Differential Equations	2	32	春 Spring	
		2022LD990101	水文学与水文模拟 Hydrology and Hydrological Modelling	2	32	秋 Autumn	
		2022LD990401	岩石水力学 Rock Hydraulics	2	32	春 Spring	
	专业课程 Major Course	2022LD020101	工程紊流的数值模拟方法及应用 Numerical Simulation Methods and Applications for Engineering Turbulence	2	32	秋 Autumn	选修 2 学分 Optional 2 credits at least
		2022LD020102	多孔介质流体动力学 Dynamics of Fluids in Porous Media	2	32	春 Spring	
非学位课程 Non-degree Course 5 学分	2022LD110002	中国国情教育（水韵课堂） Water Harmony Lectures	1	16	秋、春 Autumn/ Spring	必修 Compulsory	
	2022LD000002	汉语 II Chinese Language II	2	48	春 Spring		
	2022LD020103	高等河流动力学 Advanced River Mechanics	2	32	春 Spring	选修 2 学分 Optional 2 credits at least	
	2022LD020104	高等工程水动力学 Advanced Engineering Hydrodynamics	2	32	春 Spring		
	选修博士课程 Optional courses for PhD						选修 Optional
教学环节 Academic Activity	学术活动（含博导讲座） Seminar and Conferences (including seminars by PhD advisors)					必修 Compulsory	
	实践活动 Practice Activity						
	科学研究 Scientific Research						

## 六、教学环节

### 1. 个人培养计划

学术学位博士研究生入学后，应在导师指导下，在规定时间内按照培养方案和学位论文工作有关规定，结合研究方向和本人实际情况制定个人培养计划，其中学习计划在入学 2 个月内提交。

### 2. 学术活动

学术学位博士研究生学术活动包括参加国内外学术会议、专家学术讲座、博士生导师讲座，以及研究生学术研讨活动等。申请学位论文答辩前必须参加 20 次以上的学术交流活动，其中博士生导师讲座至少 8 次，由本人做的公开的学术报告 1 次（开题报告、中期检查、预答辩、答辩不计入）。本人做的学术报告由指导教师负责对其学术报告效果进行考核。研究生参加学术活动必须填写相关学术活动登记本。

### 3. 实践活动

为培养劳动实践能力和责任意识，学术学位博士研究生必须参加实践活动，实践活动形式包括助教、助管、助研、生产实践、社会实践等。由导师对学生实践环节的时长和效果进行考核和评价。

### 4. 科学研究

学术学位博士研究生应积极参加科学研究课题，并应具有在导师指导下独立负责某专题或子课题的研究工作经历。课题完成后由导师提出综合评审意见。

## VI. Academic Activities

### 1. Study Proposal

The PhD students must prepare a study proposal on how they will complete the PhD degree by considering their research interests, advice from their research advisors, and other requirements mentioned in this document. The proposal must be submitted in two months after official registration.

### 2. Seminars and Presentations

PhD students must participate in academic conferences, seminars by experts and PhD advisors, and discussion panels. Before their dissertation defense, PhD students must participate in seminars and

conferences over 20 times, including at least 8 seminars by PhD advisors, and deliver at least 1 academic presentation (the activities concerning with their dissertation are not counted). The presentations delivered by the PhD students will be evaluated by their own research advisors. All the seminars and presentations should be recorded in relevant record book.

### 3. Practice Activities

PhD students are required to participate in practice activities to prepare professional development. Practice activities include teaching assistantship, research assistantship, management assistantship, and industry engagement etc., which are to be assessed by the advisors.

### 4. Scientific Research

International academic PhD students should vigorously participate in scientific research projects, and shall be capable of conducting independent research on a particular topic or sub-topic under the guidance of their advisors. Their performance will be evaluated by their research advisors.

## 七、论文工作

学术学位博士学位论文研究工作必须经过文献阅读、论文选题、论文计划及开题报告、论文中期检查、科研成果产出、学位论文预审、学位论文评阅、学位论文答辩等环节。具体按照《河海大学博士学位论文工作管理办法》和学院相关文件执行。留学博士研究生可使用英文撰写论文。

## VII. Dissertation

The dissertations of academic PhD students are required to complete the stages of literature review, topic selection, dissertation plan and dissertation proposal, mid-term examination, output of scientific research achievements, pre-examination, review and assessment, and dissertation defense. Detailed requirements can be referred to in “Hohai University PhD. Dissertation Management Measures” and relevant documents in College of Water Conservancy and Hydropower Engineering. Dissertations in English is acceptable.

## 八、本学科推荐阅读的重要书目、专著和学术期刊

### VIII. Recommended Bibliographies, Monographs, and Academic Journals of the Discipline

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20. 左东启. 模型试验的理论和方法相似理论[M].北京:水利电力出版社,1984.
21. 唐洪武,唐立模等. 现代流动测试技术及应用[M].北京:科学出版社,2009.
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