港口、海岸及近海工程（081505）
Harbor, Coastal and Offshore Engineering

学科门类：工学（08）　一级学科：水利工程（0815）

Discipline Category: Engineering (08)

First-Class Discipline: Hydraulic Engineering (0815)

一、学科简介

我校港口、海岸及近海工程学科 1981 年海岸工程专业成为全国首批博士学位授权点，1988 年近海工程专业成为硕士学位授权点，1990 年港口航道工程专业成为全国首个博士学位授权点，2007 年港口、海岸及近海工程学科被评为国家重点学科，是国家“211 工程”、“全球水循环与国家水安全”985 优势学科创新平台重点建设学科。所在的一级学科“水利工程”在第二轮（2009 年）、第三轮（2012 年）学科评估中获得全国第一名，在第四轮（2016 年）学科评估中全国排名 A+，并于 2017 年入围国家一流建设学科名单，2021 年再次入选“双一流”建设学科。

本学科拥有一支年龄结构、学缘结构、学历结构相对合理的高水平师资队伍，学术气氛浓厚。现有正高 34 名，副高 55 名，博士生导师 33 名，硕士生导师 90 名。享受政府特殊津贴专家 4 名，国务院学位委员会学科评议组成员 1 名；入选省部级及以上人才工程 50 余人次，其中国家级高层次人才计划 9 人次；入选省部级创新团队 4 支。

本学科拥有 5 个省部级科研平台，始终以服务国家需求为引领，以探索前沿科学问题为导向，持续开展重大技术问题和基础理论研究，完成了一批原创性的科研成果，获国家和省部级科技奖 140 余项，其中国家科技奖一等奖 3 项。近五年来，科研经费超 2 亿元，发表高水平学术论文 300 余篇，授权发明专利近 200 项，参与编制规范近 20 部。

I. Discipline Overview

In 1981, Coastal Engineering was granted as one of the first specialties leading to Doctoral degree; in

1988, Offshore Engineering was approved leading to Master's degree; in 1990, Harbor and Waterway Engineering became the first specialty leading to Doctoral degree in China; in 2007, Harbor, Coastal and Offshore Engineering became a key discipline of national "211 Project" and "985 Project Innovation Platform" (Global water cycle and national water security). The first-level discipline Water Conservancy Engineering won the first place in the second round (2009) and the third round (2012) national discipline evaluation, and the ranking A+ in the fourth round (2016) discipline evaluation in the country, and in 2017, it was shortlisted for the list of national first-class construction disciplines, and in 2021, it was selected as a "double first-class" construction discipline again.

There is a strong academic atmosphere and a high-level faculty with reasonable structures of age, academic relationship, educational background for the discipline. The disciplinary team now has 34 professors and 55 associate professors, 33 doctoral supervisors, 90 master supervisors, 3 experts entitled to Government Special Allowance (GSA), and 1 member of the Committee of Academic Degree under the State Council; 4 groups selected as the provincial/ministry innovative research or teaching group. In addition, more than 50 people have been selected into the provincial and ministerial level talent project, including 9 people from the national high-level talent plan.

There are 5 provincial and ministerial-level research platforms for the discipline. The academic team has been carrying out major technical issues and basic theoretical research for exploring frontier scientific issues and serving the national needs. A batch of scientific research results of originality, more than 140 times of national and provincial science and technology awards have been achieved, including 3 times of national science and technology awards. In the past five years, the research funding has exceeded 200 million RMB, more than 300 high-level academic papers have been published, nearly 200 invention patents have been authorized, and nearly 20 industry standards have been compiled by the academic team.

二、培养目标

1. 河海大学硕士层次外国留学生应当在港口、海岸及近海工程领域中具有较好的国际视野，能够在多个国家的实际环境中运用和发展港口、海岸及近海工程的知识、技能和方法，并具备参与国际事务和国际竞争的能力。

2. 以英语为专业教学语言的学科、专业中，外国留学生毕业时，硕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. 本学科硕士留学研究生旨在培养本学科领域的高级专门人才。培养在本学科领域内掌握坚实的基础理论和系统的专门知识；具有从事科学研究工作或独立担负专门技术工作的能力；了解中国文化并具备汉语日常交流能力的高级专门人才。

II. Training Objectives

1. International master graduates of Hohai University are expected to have good international view, to apply and develop the theories, skills, and methodologies in the actual environment of several countries, and to participate in the international academic affairs, particularly in the field of Harbour, Coastal and Offshore Engineering.

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

3. The purpose of this discipline is to train senior professionals in this field. And the senior professionals should have should have the following abilities. Firstly, the graduates should master solid basic theory and systematic expertise in this field of. Secondly, they should have the ability to engage in scientific research or undertake special technical work; independently. Lastly, they should understand Chinese culture and have the ability of daily communication in Chinese.

三、主要研究方向

1. 河口海岸及近海工程水动力环境

2. 海岸防灾减灾与保护修复

3. 生态航道与工程泥沙

4. 港航海工结构及其与环境相互作用

5. 港航物流与绿色发展

III. Research Directions

1. Hydrodynamics of Estuary, Coastal and Offshore Engineering

2. Coastal Disaster Prevention and Restoration

3. Ecological Waterways and Sedimentation Engineering

4. Engineering Structure and Its Interaction with Surrounding Environment

5. Waterborne Logistics and Green Development

四、学制和学习年限

学术学位全英文硕士留学研究生的标准学制为 3 年。实行弹性学制，学习年限最短不少于 2 年，最长不超过 5 年。

IV. Number of Years Requirement

The master program typically requires 3 years to complete. However, the completing time may vary to 2 years as the minimum and 5 years as the maximum.

五、学分要求和课程设置

1. 学术学位全英文硕士留学研究生课程总学分为 28 学分，其中学位课程为 21 学分，非学位课程为 7 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 master students will complete 28 credits , 21 of which are from degree courses, and 7 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 Culture” 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 master degree, Chinese language courses can be exempted, of which the details can be referred to in relevant regulations.

The specific curriculum is as follows:

港口、海岸及近海工程全英文学术型留学硕士研究生课程设置

Curriculum for English Taught International Academic Master Students in Harbor, Coastal and Offshore Engineering

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 21 学分	公共课程 General Course	2022LM000001	汉语 I Chinese Language I	2	48	秋 Autumn	必修 Compulsory
		2022LM000002	汉语 II Chinese Language II	2	48	春 Spring	
		2022LM000003	中国概况 Introduction to China	2	36	秋 Autumn	
		2022LM110001	论文写作指导 Guide of Thesis Writing	2	32	秋、春 Autumn/ Spring	
	基础课程 Basic Course	2022LM880001	矩阵论 Matrix Theory	2	32	春 Spring	选修 9 学分 Optional 9 credits at least
		2022LM880002	最优化方法 Optimization Methods	2	32	秋 Autumn	
		2022LM880003	数值分析 Numerical Analysis	3	48	秋 Autumn	
		2022LM880004	数学物理方程 Partial Differential Equations	2	32	春 Spring	
		2022LM770001	流体力学 Fluid Mechanics	2	32	秋 Autumn	
		2022LM770003	弹性力学 Elastic Mechanics	2	32	秋 Autumn	
		2022LM770002	塑性力学 Engineering Plasticity	2	32	春 Spring	
		2022LM990201	多目标决策理论及方法 Theory and Method of Multi-Objective Decision-making	2	32	春 Spring	
		2022LM990103	水资源规划与管理 Water Resources Planning and Management	2	32	春 Spring	
		2022LM990501	生态修复理论与技术 Ecological Restoration Theory and Technology	2	32	春 Spring	
	专业课程 Major Course	2022LM030101	环境泥沙运动力学 Environmental Sediment Dynamics	2	32	秋 Autumn	选修 4 学分 Optional 4 credits at least
		2022LM990302	河口海岸动力学 Estuarine and Coastal Dynamics	2	32	春 Spring	
		2022LM990301	海岸与近海工程 Coastal and Offshore Engineering	2	32	春 Spring	
		2022LM030104	港口与航道工程 Port and Waterway Engineering	2	32	春 Spring	
非学位课程 Non-degree Course 7 学分		2022LM110002	中国国情教育（水韵课堂） Water Harmony Lectures	1	16	秋、春 Autumn/ Spring	必修 Compulsory
		2022LM030105	河口海岸水沙模拟理论与软件应用 Theory and Software Application of the Simulation of Hydrodynamics and Sediment in the Estuary and Coastal Area	2	32	春 Spring	选修 6 学分 Optional 6 credits at least
		2022LM030106	港航海工结构有限元分析与软件应用 Finite Element Method and Software Application of Port, Waterway and Ocean Engineering	2	32	春 Spring	
		2022LM030107	生态河流系统 River Ecosystems	2	32	春 Spring	
		2022LM030108	海岸防灾减灾	2	32	秋	

		Coastal Disaster Prevention and Mitigation			Autumn	
	2022LM991001	环境大地测量学 Environmental Geodesy	2	32	秋 Autumn	
	2022LM990601	综合能源系统 Integrated Energy System	2	32	春 Spring	
	2022LM991505	应用统计与计量模型 Applied Statistics and Econometric Models	2	32	春 Spring	
	2022LM550001	高级管理学 Advanced Management	2	32	秋 Autumn	
	2022LM550002	高级经济学 Advanced Economics	2	32	秋 Autumn	
	2022LM770004	有限元法 Finite Element Method	3	48	秋 Autumn	
	2022LM330001	程序设计方法 Methods of Programming	2	32	秋 Autumn	
	选修硕士课程 Optional courses for master					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

学术学位硕士研究生入学后，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

学术学位硕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，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 10 次以上的学术交流活动，其中博导讲座至少 2 次。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，学术学位硕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。

VI. Academic Activities

1. Study Proposal

The master students must prepare a study proposal on how they will complete the master 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

Master students must participate in academic conferences, seminars by experts and PhD advisors, and discussion panels. Before their dissertation defense, master students must participate in seminars and conferences over 10 times, including at least 2 seminars by PhD advisors. All the seminars and presentations should be recorded in relevant record book.

3. Practice Activities

Master 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.

七、论文工作

学术学位硕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《河海大学硕士学位论文工作管理办法》和港口海岸与近海工程学院相关文件执行。留学硕士研究生可使用英文撰写论文。

VII. Dissertation

The dissertations of academic master 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 Master's Dissertation Management Measures” and relevant documents in College of Harbour, Coastal and Offshore Engineering. Dissertation 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

1. 钱宁, 万兆惠. 泥沙运动力学[M]. 北京: 科学出版社, 2003.
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17. 牛志国. 船闸水工建筑物设计与工程实践[M]. 南京: 东南大学出版社, 2019.

18. 严恺, 梁其荀. 海岸工程[M]. 北京: 海洋出版社, 2002.

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