

学术学位硕士培养方案

劳动卫生与环境卫生学

(学科代码: 100402)

学科简介

劳动卫生与环境卫生学学科是学校 985 工程与 211 工程重点建设学科, 隶属于公共卫生与预防医学一级学科。公共卫生与预防医学学科依托于东南大学公共卫生学院, 学院拥有公共卫生与预防医学博士后流动站, 公共卫生与预防医学一级学科博士点, 环境医学工程教育部重点实验室, 公共卫生与预防医学一级重点学科以及公共卫生专业硕士点 (MPH) 等。学科紧密围绕我国经济与社会发展中出现的重大公共卫生问题, 和环境科学与工程、生物医学工程、材料等学科密切合作, 在开展太湖污染治理、饮用水安全保障、生物材料与纳米技术、化学污染物暴露评估技术等重要领域的高水平科研, 以及培养博硕士生高层次人才等方面取得了重要进展, 形成了医工结合的鲜明特色和优势。近 5 年来, 学科承担国家重大科技专项、973、国家自然科学基金、及省部级科研项目 30 余项; 获得省部级科技进步奖励 2 项; 发表科研论文 300 余篇。

培养目标

掌握马列主义毛泽东思想和邓小平理论, 热爱祖国, 遵纪守法、学风严谨, 实事求是, 有良好的敬业精神和合作精神。掌握医学理论知识、环境卫生学、劳动卫生学、环境科学等系统专业知识。在本研究方向上具有系统和较深入的专门知识与实验技术, 具备独立从事科学研究工作的能力, 硕士学位获得者能胜任科研, 科技开发及教学工作。熟练掌握一门外语。

研究方向

1. 环境与健康
2. 环境污染防制新技术
3. 分子环境医学
4. 环境流行病学
5. 职业安全卫生与职业病

培养年限

学制 3 年, 最长可延至 4 年。

学分要求和课程设置 (见附表)

开题报告

按照《东南大学研究生论文选题和开题报告的原则与要求》执行。

中期考核

按照《东南大学硕士研究生中期考核与筛选办法》执行。

学位论文

文献阅读:

在论文选题及研究方向范围内至少阅读文献 50 篇, 其中外文文献 30 篇, 完成一篇综述。

论文撰写:

除符合学校规定外，学位论文必须是一篇系统、完整的学术论文，要求概念清楚、立论正确、论述严谨、计算正确、数据可靠，且层次分明、文笔简洁、流畅、图表清晰。

论学术水平：

学位论文应在调查研究的基础上，选择有一定学术价值，对国民经济发展有一定意义的课题。围绕论文开展科研工作的时间不少于1年。本学科申请硕士学位前，在符合学校基本要求的前提下，至少在CSCD、SCI、SSCI、CSSCI、EI、CPCI-E、MEDLINE等收录源期刊上发表研究论文1篇。

附表：

组别	课程编号	课程名称	开课学期	学时	学分	授课方式	考试方式	备注	
公共必修课	S000301	中国特色社会主义理论与实践研究	春秋	32	2	面授	笔试		
	S000151	学位英语	春秋	64	4	面授	笔试		
公共选修课	S000302	自然辩证法概论	春秋	16	1			必选一门	
	S000303	马克思主义与社会科学方法论	秋季	16	1				
	S000307	尊重学术道德，遵守学术规范	春秋	16	1			必选	
	S000315	创新创业与管理基础	春秋	32	2			必选一门	
	S000317	创新思维与创业实验	春秋	32	2				
专业必修课	专业基础课	S042201	医学统计学（公卫学硕，拟建设在线课程）	秋季	48	3	面授	笔试	按一级学科设置
		S042202	现代流行病学（公卫学硕，拟建设课程思政示范课程）	春季	48	3	面授	笔试	
		S042416	预防医学高级实验技术与实践	秋季	48	3	面授+实验	笔试+技能	
	专业核心课	S042301	现代劳动卫生学	秋季	48	3	面授	笔试	全英文课程必选一门
		S042302	现代环境卫生学（全英文课程）	春季	48	3	面授	笔试	
		专业选修课	S042803	流行病学（全英文课程）	秋季	48	3	面授	
S042805	健康教育与健康促进（全英文课程）		春季	32	2	面授	笔试		
综合素养环节	创新创业实践	竞赛、教学实践、出国短访、生产实践（临床实践）或社会调查等。			3			考查	
	选听人文与科学素养	至少8次，其中必须选听学风建设、法律、心理健康讲座至少1次（留学生至少3次）。			1			考查	

	系列讲座					
	参加学术活动及学术论文撰写	参加学术研讨活动至少 2 次并撰写学术论文 1 篇。	1		考查	

注: 1. 在校期间课程总学分最低要求为: 理工类 26 学分, 医类 28 学分, 文管类 30 学分, 其中必修课程最低学分要求为: 16 学分, 其余为选修课程。此外, 还应完成综合素养环节 5 学分。

2. 必修课程学习一般应在入学后一学年内完成。

3. 必修课程和公共选修课根据此表, 专业选修课从“研究生课程目录”中选择。

培养方案审批意见

学科点意见	负责人: 日期:
所在院(系)审批意见	负责人: 日期:
所在学位评定分委员会审批意见	分委员会主席: 日期:
研究生院审批意见	负责人: 日期:
备注	

Discipline: Environmental and Occupational Health

(Discipline Code: 100402)

Brief Introduction of Discipline

The Public Health and Preventive Medicine of School of Public Health, Southeast University is one of top ten disciplines in China. There are post-doctoral station, two PhD programs in occupational and environmental health and hygiene toxicology; master program of public health and preventive medicine and master program of public health (MPH). There are 47 teachers including 13 full professors, 16 associate professors, 8 doctoral supervisors and 29 graduate tutors in the school, 54% of the teachers have PhD degree. The discipline of Occupational and environmental health is the key discipline of Province and 985 program from which “The Environment and Health Innovation and Research Center” is financially supported and well equipped in the discipline. There are 12 teachers, including 4 professors, 6 associate professors, 3 doctoral supervisors and 90% teachers have PhD degree. The researches of the discipline focus on the major projects of environment and health, such as control of pollution in Taihu Lake, safety assessment of biomaterials, nanotechnology, chemical pollutants and drinking water. Combination of medicine and engineering are characteristics and advantages of this discipline. In recent 5 years, the discipline has received 29 research grants including the National High Technology Research and Development Program of China (863 Program), National Basic Research Program of China (973 Program), the National Natural Science Foundation of China, and the research grants from provincial and ministerial foundations. More than three hundred papers have been published.

Objectives

Students will grasp the fundamental principles of Marxism, stick to the Four Cardinal Principles, have the sense of patriotic duty, abide by the laws and regulations, and behave upright. Meanwhile, the students will develop their spirit of serving the people and devoting to the construction of socialism.

The students will grasp digital, modern digital communication, signal processing theory, mobile communication, and development tools of software and hardware. The students will have systematic and thorough expertise, become specialized in experimental techniques used in his/her research areas, and be capable of conducting independent research in scientific fields. The students graduated with a Master degree are competent for the scientific research, technological development and teaching. Students will acquire proficiency in at least one language other than Chinese.

Research Direction

1. Environment and health
2. New technology of prevention and treatment for environmental pollution
3. Molecular environmental medicine
4. Environmental epidemiology
5. Occupational safety and health

Duration

Generally, the students are expected to graduate in 3 years and no more than 4 years.

Credit requirements and curriculum (see attached list)

Thesis Proposal

in accordance with Principles and Requirements of Southeast University on Topic Selection and Topic Report of Graduate Thesis

Interim Assessment

in accordance with Measures of Southeast University on Medium-term Assessment and Screening for Master Graduates

Thesis

(Literature reading requirements, thesis written request, publication achievement requirements etc.)

Literature Reading

Students are required to read at least 50 literatures (including 30 literatures written in foreign languages) related to their thesis and research direction and write a literature review.

Thesis Writing

In addition to compliance with the provisions of school, thesis must be written in a systematic and complete manner, presenting clear concepts, correct argument, realistic description, concise writing structure, smooth and concise writing style, correct calculation, reliable data, and clear icons.

Thesis Evaluation:

Thesis should be written based on students' own study and research. The findings presented in the thesis should have higher academic value and positive impact on economic or social development of China.

Students are required to conduct at least one year research and to publish at least 1 research paper in the area of their disciplines in CSCD、SCI、EI、ISTP、MEDLINE cited journals before being eligible for applying for a Master's degree.

Attached List

Course Type	Course Number	Courses	Terms	Class Hours	Credits	Teaching Type	Assessment	Note
Public Compulsory Courses	S000301	Theory and Practice of Socialism with Chinese Characteristics	Spring / Fall	36	2	Lecture	Exam	
	S000151	Academic English for Graduate Students	Spring / Fall	64	4	Lecture	Exam	
Public Elective Courses	S000302	An Introduction to Nature Dialectics	Spring / Fall	16	1			Choose either of the two
		Marxism and Social Science Methodology		16	1			
		Academic Ethics		16	1			compulsory
		Innovation and Entrepreneurship		16	1			compulsory
		Engineering Ethics		16	1			
		Leadership		16	1			
Specialized Degree Courses	S042201	Medical Statistics(for public health)	Fall	48	3	Lecture	Exam	According to the first-level-discipline setting
	S042202	Modern Epidemiology	Spring	48	3	Lecture	Exam	
	S042416	Advanced Experimental Technology and Practice	Fall	48	3	Lecture and experiment	Exam +technique	

Courses	Specialized Compulsory Courses		in Public Health						
		S042301	Advanced Occupational Health	Fall	48	3	Lecture and case discussion	Exam	Choose one of the three
		S042302	Advanced Environmental Health	Fall	48	3	Lecture	Exam	
		S042304	Molecular and Genetic Toxicology	Spring	48	3	Lecture	Summary writing	
Specialized Elective Courses		Determined by respective disciplines; and must fulfill the overall course credit requirement.				≥ 7			
Integrated Quality Training	Innovation and Entrepreneurship Practice	Contests, teaching practice, international short visits, practice and internship (clinical practice), social survey, etc.			1		Non-exam		
	Lectures on Humanities and Scientific Literacy	Students are required to attend at least 8 lectures, including compulsory lectures on academic atmosphere construction, law and psychological health (at least 3 lectures for international students).			1		Non-exam		
	Academic Activity Participation and Academic Writing Practice	Students are required to participate in at least 2 academic activities, and write 1 academic paper.			1		Non-exam		

Note:

(1) The minimum credits for master students: 26 credits for students of science and engineering, 28 credits for students of medical science, 30 credits for students of liberal arts, economics and management, with 16 credits from compulsory courses. In addition, students should obtain 5 credits from Integrated Quality Training.

(2) All compulsory courses are normally required to be completed within one year after registration.

(3) Compulsory courses and public elective courses are subject to this course plan; specialized elective courses can be chosen from "Graduate Courses Catalog".

Approval for Training Program:

Approval of Discipline Group	Person in charge: Date:
Approval of School (Department)	Person in charge: Date:
Approval of Sub-committee of Degree Assessment	Chairman of sub-committee: Date:
Approval of Graduate School	Person in charge: Date:
Others	