

# 常州大学学术学位硕士留学生研究生培养方案

（学科门类：工学 一级学科代码：0837 一级学科名称：安全科学与工程）

（二级学科代码： 二级学科名称： ）

## 学科简介

常州大学“安全科学与工程”自 1991 年创办，培养安全工程专业人才，2004 年开始在环境工程专业下培养安全方向硕士研究生，2006 年获得安全技术与工程二级学科硕士学位授予权，2012 年获得安全科学与工程一级学科硕士学位授予权，2021 年获得安全科学与工程一级学科博士学位授予权，先后获江苏省“十二五”重点培育学科，“十三五”重点培育学科，“十四五”重点学科，安全工程本科专业先后获教育部首批综合改革试点专业、江苏省品牌专业、江苏省一流专业建设点，2019 年入选国家一流本科专业建设点。

“安全科学与工程”一级学科拥有应急管理部油气储运安全技术创新中心、石油和化工行业先进等离子体催化技术工程实验室、石油和化工行业连续流技术工程实验室、石油化工安全与环保工程研究中心等省部级教学科研与人才培养平台。学科依托江苏省与中国“三大石油公司”共建常州大学的优势，面向国家和能源安全需求，突出能源安全特色，强化团队与人才建设，在化工过程本质安全设计技术、危险化学品安全特性精密分析仪器研发与元器件国产化、新型连续流微通道反应器技术与装备研制、危险源安全监管与事故应急救援技术、化工园区火灾防治与应急技术等方向形成鲜明特色。

本学科具有雄厚的师资力量和学科团队。拥有中国化工学会会士、全国优秀教师、国家百千万人才、全国公安系统优秀教师、教育部新世纪优秀人才、国务院特殊津贴获得者、江苏省“双创人才”“333 工程”“青蓝工程”中青年学术带头人等省级以上各类人才，省级教学科研团队 5 个。

Changzhou University "Safety Science and Engineering" was founded in 1991 to train safety engineering professionals. In 2004, it began to train master's students in the field of safety under the specialty of environmental engineering. In 2006, it was granted the right to grant a master's degree in the secondary discipline of safety technology and engineering. In 2012, the right to grant a master's degree in the first-level discipline of safety science and engineering. In 2021, the right to grant a doctoral degree in the first-level discipline of safety science and engineering was successively awarded by the key disciplines of Jiangsu Province in the "Twelfth Five-Year Plan", "Thirteenth Five-Year Plan" and "Fourteenth Five-Year Plan". The undergraduate major of safety engineering has successively won the first batch of comprehensive reform pilot majors of the Ministry of Education, Jiangsu brand majors, and Jiangsu first-class specialty construction sites. In 2019, it was selected as the national first-class undergraduate specialty construction sites.

Under the first level discipline of "Safety Science and Engineering", there are three disciplines: petrochemical process safety, petrochemical process and equipment safety, and major accident prevention and control and emergency response. It has provincial and ministerial teaching, research and talent training platforms such as the Oil and Gas Storage and Transportation Safety Technology Innovation Center of the Emergency Management Department, the Engineering Laboratory of Advanced Plasma Catalytic Technology in the Petroleum and Chemical Industry, the Engineering Laboratory of Continuous Flow Technology in the Petroleum and Chemical Industry, and the Petrochemical Safety and Environmental Protection Engineering Research Center. The discipline relies on the advantages of Changzhou University jointly built by Jiangsu Province and China's "three major oil companies", faces the national and energy security needs, highlights the characteristics of energy security, strengthens the construction of teams and talents, and develops intrinsic safety design technologies in chemical processes, research and development of precision analytical instruments for the safety characteristics of hazardous chemicals, localization of components, new continuous flow micro channel reactor technology and equipment, safety supervision of hazard sources and emergency rescue technology for accidents. The fire prevention and emergency technology in the chemical industry park has formed distinctive characteristics.

The discipline has a strong faculty and discipline team. There are various talents at or above the provincial level, such as academicians of the Chinese Chemical Society, national outstanding teachers, national million talents, national outstanding teachers of the public security system, new century outstanding talents of the Ministry of Education, special subsidies granted by the State Council, young and middle-aged academic leaders of the "mass entrepreneurship and innovation talents", "333 project" and "blue blue project" in Jiangsu Province, and 5 provincial teaching and research teams.

## 培养目标

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(1) 了解中国的文化、政治与经济，掌握一定程度的汉语。

(2) 掌握安全科学与工程学科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。

(3) 具有良好的学术道德和敬业精神，身心健康。

a. to enable overseas students to have a comprehensive understanding of China, including its politics, economy as well as culture and to enable them to have basic capability to understand and communicate with others in Chinese.

b. to equip overseas students with all-round basic theories and systematic and professional knowledge in discipline of safety science and engineering, and with skills to do scientific research independently so as to make creative contributions in science and technology.

c. to benefit students' physical and mental health, and to provide them with good academic ethics and spirits and to cultivate their scientific and practical learning attitude and working style.

## 学习年限

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采用全日制学习方式，学习年限一般为 3 年。如确有必要可申请延长学习时间，但最长一般不超过6 年，逾期作自动退学处理。

The master's program requires 3 years of full-time study. If necessary, you can apply for an extension of study time, but the maximum is generally not more than 6 years, overdue for automatic withdrawal.

## 主要研究方向

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1.化工安全

2.油气储运安全

3.消防与城市公共安全

4.安全检测与监控

1. Chemical Engineering Safety

2. Oil-gas Storage and Transportation Safety

3. Fire Control and Urban Public Safety

4. Safety Detection & Monitoring

## 培养环节

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### （一）开题报告

硕士研究生入学后，应在指导教师指导下明确科研方向，参加科学研究工作，通过收集、阅读文献，进行调查研究和必要的实验工作，完成学位论文开题报告。开题报告按照《常州大学硕士学位论文选题及开题报告办法》要求实施。

a.opening report

After entering the master's program, students should clarify their research direction under the guidance of their mentors, participate in scientific research work, collect and read literature, conduct research and necessary experimental work, and complete the thesis proposal report. The opening report shall be implemented in accordance with the requirements of the "Methods for Selecting Topics and Opening Reports of Master's Thesis at Changzhou University".

### （二）中期考核

硕士研究生指导教师应对硕士研究生学位论文工作进行经常性检查。硕士研究生在硕士学位论文工作中期，应作阶段性研究工作报告，接受中期考核。中期考核按照《常州大学硕士研究生中期考核办法》实施。

b.Mid term assessment

Master's degree guidance teachers should conduct regular checks on the work of master's degree theses. During the mid-term of their master's thesis work, master's students should submit periodic research reports and undergo mid-term assessments. The mid-term assessment shall be implemented in accordance with the "Interim Assessment Measures for Master's Students at Changzhou University".

## 学位论文工作

### (三) 学位论文

硕士学位论文是科学研究工作的全面总结，是硕士生培养质量和学术水平的集中反映，是申请和授予硕士学位的基本依据。硕士学位论文应在导师指导下由硕士生独立完成。硕士学位论文撰写是硕士生培养过程的基本训练之一，必须按照规范认真执行，关于学位论文的语种要求参照教育部、外交部、公安部令第42号令《学校招收和培养国际学生管理办法》第十九条，其余学位论文要求参照《常州大学硕士学位论文基本要求与格式》。

## c.Dissertation

Writing a master's thesis is one of the basic training in the process of cultivating master's students and must be carried out in accordance with regulations. The language requirements for a master's thesis should refer to Article 19 of Order No. 42 of the Ministry of Education, the Ministry of Foreign Affairs, and the Ministry of Public Security on the Management Measures for International Student Recruitment and Training in Schools, while other requirements for a master's thesis should refer to the Basic Requirements and Format of a Master's Thesis at Changzhou University.

#### （四）申请学位成果要求

硕士研究生申请学位考试前需满足下列两项条件之一：

- (1)以第一作者发表省级期刊以上论文1篇，或导师为第一作者，硕士生为第二作者，且需有硕士生与指导教师共同署名。
- (2)与导师共同署名申请发明专利1项或获得省部级科技成果奖或国家/省/行业标准一项。

#### d.Requirements for academic achievements

Before applying for the degree exam, master's students need to meet one of the following two conditions:

- (1) One paper published in a provincial journal or above by the lead author, or the supervisor is the lead author, and the master student is the second author, and it needs to be signed by both the master student and the instructor.
- (2) Jointly sign with the supervisor to apply for one invention patent or obtain a provincial-level scientific and technological achievement award or one national/provincial/industry standard.

### (五) 学位论文答辩与学位授予

按照《常州大学硕士学位授予暂行工作细则（试行）》执行。

e. Thesis defense and degree awarding

It shall be implemented in accordance with the Interim Rules for the Granting of Master's Degrees of Changzhou University (for Trial Implementation).

## 课程设计与考试要求

课程类别	课程编号	课程名称	学分	学时	学期	授课方式	是否学位课	考试方式	分组情况

A公共基础学位课程	LS23A2001	汉语综合1	3	54	1	辅导	学位课	其他	
	LS23A2002	汉语综合2	3	54	2	辅导	学位课	其他	
	LS23A2003	汉语听说	2	36	2	辅导	学位课	其他	
	LS23A2004	汉语阅读	2	36	3	辅导	学位课	其他	
	LS23A2005	中国概况	2	36	1	辅导	学位课	其他	
	LS23A2006	中国文化	2	36	2	辅导	学位课	其他	
B专业学位课程	LS20B2001	安全科学原理	4	64	1	辅导	学位课	笔试	第1组, 选3-3门 选12-12 学分
	LS20B2002	高等流体力学	4	64	1	辅导	学位课		第1组, 选3-3门 选12-12 学分
	LS20B2003	安全分析与计算方法*	4	64	1	辅导	学位课		第1组, 选3-3门 选12-12 学分
C专业选修课程	LS20C2001	火灾科学与消防工程	3	48	2	辅导	非学位课	笔试	第2组, 选4-4门 选12-12 学分
	LS20C2002	化工风险控制技术	3	48	2	辅导	非学位课		第2组, 选4-4门 选12-12 学分
	LS20C2003	石油天然气安全工程	3	48	2	辅导	非学位课		第2组, 选4-4门 选12-12 学分
	LS20C2004	公共安全学	3	48	2	辅导	非学位课		第2组, 选4-4门 选12-12 学分
	LS20C2005	现代安全管理*	3	48	2	辅导	非学位课		第2组, 选4-4门

								选12-12 学分
	LS20C2006	安全仿真技术	3	48	2	辅导	非学位课	第2组, 选4-4门 选12-12 学分
	LS20C2007	安全检测技术	3	48	2	辅导	非学位课	第2组, 选4-4门 选12-12 学分
	LS20C2008	信息检索与论文写作	3	48	2	辅导	非学位课	第2组, 选4-4门 选12-12 学分
	LS20C2009	安全科学前沿讲座	3	48	2	辅导	非学位课	第2组, 选4-4门 选12-12 学分

培养环节

培养环节代码	培养环节名称	培养环节类型	培养环节学分	备注
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