**常州大学**

**Changzhou Universit**y

硕士留学研究生培养方案

**Master’s Degree Program for Overseas Students**

**安全科学与工程**

**Safety Science and Engineering**

**专业代码 （0837）**

**(Discipline Code: 0837)**

**一、学科简介**

2011年获得安全科学与工程一级学科硕士学位授予权。本学科已形成了由31名成员组成的学术团队，其中，正高职称10人，博士16人。团队成员中有国家“万人名师”1人，1人入选教育部新世纪优秀人才计划、国家百千万人才工程，国家安全生产专家3人，全国优秀教师1人，4人享受国务院政府特殊津贴。近五年来，本学科承担国家级科研项目15项，省市级科研项目28余项，累计科研经费总额超过2000万元。发表论文109余篇，发明专利授权50项；出版教材与专著21部。目前，学科具有实验室面积2000平方米，仪器设备总价值超过2000万元。

**A. Discipline introduction**

In 2011, the college received approval to grant a master's degree in safety science and engineering. The academic team has 31 members, including 10 professors and 16 doctors. Among the team members, there are one teacher having been awarded as national “Ten Thousand People Plan”, one teacher having been selected as “Ministry of Education New Century Outstanding Talents Support Program” and “National Ten Million Talent Project”, three teachers having been awarded as “National Safety Production Expert”, one teacher having been awarded as “National Outstanding Teacher”, and four teachers having been supported by State Council with special government allowances. In the past five years, the discipline has undertaken 15 national-level scientific research projects, more than 28 provincial/municipal-level scientific research projects, and accumulated scientific research funds totaling more than 20 million yuan. The discipline has published more than 109 papers, 50 invention patents, and 21 textbooks and monographs. At present, the discipline has a laboratory area of 2000 square meters, and the total value of instruments and equipment exceeds 20 million yuan.

**二、培养目标**

（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。

**B. Cultivating Objectives**

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.

**三、学习年限**

采用全日制学习方式，学习年限一般为3年。

**C. Study Duration**

The master’s program requires 3 years of full-time study.

**四、主要研究方向**

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

**D. Research Field**

1. Chemical Engineering Safety

2. Oil-gas Storage and Transportation Safety

3. Fire Control and Urban Public Safety

4. Safety Detection & Monitoring

**五、课程设置**

**E. Curriculum Provision**

| **类别****Category** | **课程名称****Course Name** | **学时****Learning Hour** | **学分****Credit** | **开课学期****Learning Semester** | **开课学院****Teaching School** | **授课方式****Teaching methods** | **考试方式****Assessment** | **备注****Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A类专业学位课Degree Compulsory Course | 汉语综合Chinese Synthesis | 108 | 6 | 1,2 |  |  |  | 14学分(Credit)  |
| 汉语听说Chinese Listening and Speaking | 36 | 2 | 2 |  |  |  |
| 汉语阅读Chinese Reading | 36 | 2 | 3 |  |  |  |
| 中国概况Brief Introduction of China | 36 | 2 | 1 |  |  |  |
| 中国文化Chinese Culture | 36 | 2 | 2 |  |  |  |
| B类学科必修课Discipline Compulsory Course | 高等流体力学Advanced Fluid Mechanics | 64 | 4 | 1 | 安全科学与工程SSE | 讲授Teaching | 考试Exam | =12学分(Credit) |
| 安全分析与计算方法Safety Analysis and Calculation Methods | 64 | 4 | 1 | 安全科学与工程SSE | 讲授Teaching | 考试Exam |
| 安全科学原理Safety Science Principle | 64 | 4 | 1 | 安全科学与工程SSE | 讲授Teaching | 考试Exam |
| C 专业选修课程Specialized Elective Course | 现代安全管理Modern safety Management | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test | ≥12学分(Credit) |
| 公共安全学Public Safety | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |
| 信息检索与论文写作Information Retrieval and Academic Thesis Writing | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |
| 化工风险控制技术Risk Control Technology in Chemical Engineering | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |
| 石油天然气安全工程Oil and Gas Engineering Safety | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |
| 安全仿真技术Safety Simulation Technology | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |
| 安全科学前沿讲座Lecture of Frontier in Safety Science | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |
|  | 火灾科学与消防工程Fire Science and Fire-fighting Engineering | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |  |
|  | 安全检测技术Safety Testing Technology | 48 | 3 | 2 | 安全科学与工程SSE | 讲授Teaching | 考查test |  |

**六、学位论文工作**

**F. Dissertation Request**

参照《常州大学学术学位硕士研究生培养方案（总则）》实施。

As for the requirements of dissertation writing, please refer to the *Changzhou University Academic Degree Master Program Training Program* (*General*).

**常州大学**

**Changzhou Universit**y

硕士留学研究生培养方案

**Master’s Degree Program for Overseas Students**

土 木 工 程

Civil Engineering

专业代码 （0814）

(Discipline Code: 0814)

**一、学科简介**

2018年获得土木工程一学科硕士学位授予权。本学科已形成了由28名成员组成的学术团队，其中，正高职称3人，博士19人。团队成员中有江苏省“青蓝工程”中青年学术带头人1人，江苏省“六大人才高峰”高层次人才1人，海外知名高校或科研机构研修经历9人。近五年来，本学科承担国家级科研项目14项，省市级科研项目20余项，累计科研经费总额超过3000万元。发表论文100余篇，发明专利授权43项；出版教材与专著21部。目前，学科具有实验室面积1752平方米，仪器设备总价值超过2000万元。

**A. Discipline introduction**

In 2018, the college received approval to grant a master's degree in civil engineering. The academic team has 28 members, including 3 professors and 19 doctors. Among the team members, there are one academic leader of Jiangsu Cyan Project in young and middle ages, one high-level talent of six talent peaks project in Jiangsu Province, and nine teachers who studied or researched in overseas famous universities or research institutions. In the past five years, the discipline has undertaken 14 national-level scientific research projects, more than 20 provincial/municipal-level scientific research projects, and accumulated scientific research funds totaling more than 30 million yuan. The discipline has published more than 100 papers, 43 invention patents, and 21 textbooks and monographs. At present, the discipline has a laboratory area of 1752 square meters, and the total value of instruments and equipment exceeds 20 million yuan.

**二、培养目标**

（1）了解中国的文化、政治与经济，掌握一定程度的汉语。

（2）掌握土木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。

**B. Cultivating Objectives**

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 civil 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.

**三、学习年限**

采用全日制学习方式，学习年限一般为3年。

**C. Study Duration**

The master’s program requires 3 years of full-time study.

**四、主要研究方向**

1.结构工程

2.岩土工程

3.土木工程材料

**D. Research Field**

1. Structural Engineering

2. Geotechnical Engineering

3. Civil Engineering Materials

**五、课程设置**

**E. Curriculum Provision**

| **类别****Category** | **课程名称****Course Name** | **学时****Learning Hour** | **学分****Credit** | **开课学期****Learning Semester** | **开课学院****Teaching School** | **授课方式****Teaching methods** | **考试方式****Assessment** | **备注****Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A类专业学位课Degree Compulsory Course | 汉语综合Chinese Synthesis | 108 | 6 | 1,2 |  |  |  | 14学分(Credit) |
| 汉语听说Chinese Listening and Speaking | 36 | 2 | 2 |  |  |  |
| 汉语阅读Chinese Reading | 36 | 2 | 3 |  |  |  |
| 中国概况Brief Introduction of China | 36 | 2 | 1 |  |  |  |
| 中国文化Chinese Culture | 36 | 2 | 2 |  |  |  |
| B类学科必修课Discipline Compulsory Course | 高等混凝土结构理论Advanced Theory of Concrete Structures | 64 | 4 | 1 | 土木工程CE | 讲授Teaching | 考试Exam | ≥12学分(Credit) |
| 损伤力学Damage Mechanics | 64 | 4 | 1 | 土木工程CE | 讲授Teaching | 考试Exam |
| 高等土木工程材料Advanced Civil Engineering Materials | 64 | 4 | 1 | 土木工程CE | 讲授Teaching | 考试Exam |
| C类专业方向选修课Degree Elective Course | 数值计算与力学仿真技术Numerical Methods and Simulation Technology in Mechanics | 64 | 4 | 1 | 土木工程CE | 讲授Teaching | 考查Test | ≥12学分(Credit) |
| 扩展基础Spread Foundation | 64 | 4 | 1 | 土木工程CE | 讲授Teaching | 考查Test |
| 土木工程学科前沿讲座与写作Lecture and Writing on the Frontier of Civil Engineering | 64 | 4 | 1 | 土木工程CE | 讲授Teaching | 考查Test |

**六、学位论文工作**

**F. Dissertation Request**

参照《常州大学学术学位硕士研究生培养方案（总则）》实施。

As for the requirements of dissertation writing, please refer to the *Changzhou University Academic Degree Master Program Training Program* (*General*).

**常州大学**

**Changzhou Universit**y

硕士留学研究生培养方案

**Master’s Degree Program for Overseas Students**

**环境科学与工程**

Environmental Science and Engineering

专业代码 （0830）

(Discipline Code: 0830)

**一、学科简介**

2005年获得环境工程二级学科硕士学位授予权。本学科已形成了由42名成员组成的学术团队，其中，正高职称15人，博士28人。团队成员中有国家“千人计划”创业人才1人、国家环境基准专家1人、享受国务院特殊津贴的中青年专家1人、江苏省有突出贡献的中青年专家2人及其他省级学科学术带头人12人。近五年来，本学科承担国家级科研项目20项，省部级科研项目30余项，累计科研经费总额超过5000万元。发表论文380 篇，发明专利授权212 项；获省部级科技奖10 项。目前，学科具有实验室面积5000平方米，仪器设备总价值超过4000万元。

**A. Discipline introduction**

In 2005, the college obtained the right to grant a master's degree in environmental engineering. The academic team has 42 members, including 15 professors and 25 doctors. Among the team members, there are one national "Thousand Talents Plan" entrepreneurial talent, one National Environmental Standards Expert , one young and middle-aged expert who enjoys the special allowance of the State Council, two young and middle-aged expert with outstanding contributions in Jiangsu Province, and 12 academic leaders of other provincial disciplines. In the past five years, the discipline has undertaken 20 national-level scientific research projects, more than 30 provincial-level scientific research projects, and accumulated scientific research funds totaling more than 50 million yuan. The discipline has published 380 papers, 212 invention patents, 10 provincial and ministerial science and technology awards. At present, the discipline has a laboratory area of 5000 square meters, and the total value of instruments and equipment exceeds 40 million yuan.

**二、培养目标**

（1）了解中国的文化、政治与经济，掌握一定程度的汉语。

（2）掌握环境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。

**B. Cultivating Objectives**

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 environmental 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.

**三、学习年限**

采用全日制学习方式，学习年限一般为3年。

**C. Study Duration**

The master’s program requires 3 years of full-time study.

**四、主要研究方向**

1.废水处理

2.废气处理

3.土壤污染防治

4.废弃物资源化

**D. Research Field**

1. Wastewater treatment

2. Waste gas treatment

3. Soil pollution control

4. Waste recycling

**五、课程设置**

**E. Curriculum Provision**

| 类别Category | 课程名称Course Name | 学时Learning Hour | 学分Credit | 开课学期Learning Semester | 开课学院Teaching School | 授课方式Teaching methods | 考试方式Assessment | 备注Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A类专业学位课Degree Compulsory, | 汉语综合Chinese Synthesis | 108 | 6 | 1,2 |  |  |  | 14学分(Credit) |
| 汉语听说Chinese Listening and Speaking | 36 | 2 | 2 |  |  |  |
| 汉语阅读Chinese Reading | 36 | 2 | 3 |  |  |  |
| 中国概况Brief Introduction of China | 36 | 2 | 1 |  |  |  |
| 中国文化Chinese Culture | 36 | 2 | 2 |  |  |  |
| B类学科必修课Discipline Compulsory Course | 高等环境化学Advanced Environmental Chemistry | 64 | 4 | 1 | 环境工程ME  | 讲授Teaching | 考试Exam | =12学分(Credit) |
| 高等环境微生物学Advanced Environmental Microbiology | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考试Exam |
| 环境分析化学Environmental Analytical Chemistry | 64 | 4 | 1 | 环境工程ME | 讲授Teaching | 考试Exam |
| C类专业方向选修课Degree Elective Course | 环境生态学Environmental ecology | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test | ≥12学分(Credit) |
| 环境毒理学Environmental toxicology | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |
| 环境伦理学Environmental ethics | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |
| 水污染控制进展Advance in water pollution control | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |
| 大气污染控制进展Advance in air pollution control | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |
| 固体废物处理与资源化Solid waste treatment and resource utilization | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |
| 高级氧化技术Advanced oxidation technology | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考试Exam |
| 环境修复技术Environmental remediation technology | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |
| 全球环境挑战Global environment challenges | 64 | 4 | 1 | 环境工程EE | 讲授Teaching | 考查Test |

**六、学位论文工作**

**F. Dissertation Request**

参照《常州大学学术学位硕士研究生培养方案（总则）》实施。

As for the requirements of dissertation writing, please refer to the *Changzhou University Academic Degree Master Program Training Program* (*General*).