

课程详述

COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程检讨之后产生变动。如对课程有任何疑问，请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 Course Title	环境监测实验 Environmental monitoring experiment				
2.	授课院系 Originating Department	环境科学与工程学院 School of Environmental Science and Engineering				
3.	课程编号 Course Code	ESE212				
4.	课程学分 Credit Value	1				
5.	课程类别 Course Type	专业核心课 Major Core Courses				
6.	授课学期 Semester	春季 Spring				
7.	授课语言 Teaching Language	中文 Chinese				
8.	授课教师、所属学系、联系方式 (如属团队授课, 请列明其他授课教师) Instructor(s), Affiliation & Contact (For team teaching, please list all instructors)	熊鹰, 环境科学与工程学院, 邮箱: xiongy@sustech.edu.cn Ying Xiong, School of Environmental Science and Engineering, Email: xiongy@sustech.edu.cn				
9.	实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact	待公布 To be announced				
10.	选课人数限额(可不填) Maximum Enrolment (Optional)					
11.	授课方式 Delivery Method	讲授 Lectures	习题/辅导/讨论 Tutorials	实验/实习 Lab/Practical	其它(请具体注明) Other (Please specify)	总学时 Total
	学时数 Credit Hours	0	0	32	0	32

12. 先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	先选 Co-requisite: 环境监测 Environment Monitoring
13. 后续课程、其它学习规划 Courses for which this course is a pre-requisite	无 N/A
14. 其它要求修读本课程的学系 Cross-listing Dept.	无 N/A

教学大纲及教学日历 SYLLABUS

15. **教学目标 Course Objectives**

本课程教学是属于环境科学与工程专业核心理论课《环境监测》的配套实验课程，旨在培养学生在环境监测方面的基本实验技能，让学生做到理论与实践有机结合，加深对环境监测的认识与理解。

This course is an experimental course which aims to cultivate students' basic experimental skills, in order to combine the theory with practice, help students to further understand the Environmental monitoring.

16. **预达学习成果 Learning Outcomes**

本课程通过对本科生讲授基本的环境监测实验，不仅要培养学生对于基本实验技能的掌握，更重要的是培养学生在现有实验室条件下，参与设计实验、分工协作，并独立完成相关实验报告的能力，为以后学生毕业从事环境监测等相关的研究、工程以及管理提供实践支持。

This course will teach students to master the basic environmental monitoring experiment, not only to cultivate students for the basic experimental skills, more important is to develop students the ability to independently design and complete relevant experimental.

17. 课程内容及教学日历（如授课语言以英文为主，则课程内容介绍可以用英文；如团队教学或模块教学，教学日历须注明主讲人）

Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)



实验内容 (学时安排)

Content (Class hour)

实验一 环境水样的采集和水样基本性质的测定 (4 学时)

No 1. The collection of environmental water samples and the determination of its basic properties. 4 class hours

实验二 水中亚硝酸盐氮的测定 (4 学时)

No 2. Determination of nitrite nitrogen in water . 4 class hours

实验三 土壤中总铜的测定 (4 学时)

No 3. Determination of total copper in soil . 4 class hours

实验四 水中铜的测定 (4 学时)

No 4. Determination of copper in water. 4 class hours

实验五 水中 COD 的测定 (4 学时)

No 5. Determination of COD in water. 4 class hours

实验六 水中挥发酚类的测定—4-氨基安替比林分光光度法 (4 学时)

No 6. Determination of Volatile Phenols in Water by the method of 4-Amino Antipyrine Spectrophotometric . 4 class hours

实验七 大气样品的采集和 TSP 的测定 (4 学时)

No 7. Collection of atmospheric samples and TSP determination. 4 class hours

实验八 校园环境噪声监测 (4 学时)

No 8. Campus environment noise monitoring. 4 class hours

18. 教材及其它参考资料 Textbook and Supplementary Readings

《环境监测实验》第三版, 黄进, 四川大学出版社;

《Environmental Monitoring Lab》, third Edition, Huang Jin, Sichuan University Press;

《环境监测》第四版, 奚旦立, 高等教育出版社;

《Environmental Monitoring》, forth Edition, Xi Danli, Higher Education Press;

《环境监测》, 冯启言, 中国矿业大学出版社。

《Environmental Monitoring》, Feng Qiyang, China University of Mining and Technology Press

课程评估 ASSESSMENT

19. 评估形式 Type Assessment	评估时间 of Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance	16 weeks	10%		
课堂表现 Class Performance	16 weeks	20%		
小测验 Quiz				
课程项目 Projects				
平时作业		60%		实验报告 Experiment Report

Assignments			
期中考试 Mid-Term Test			
期末考试 Final Exam			
期末报告 Final Presentation			
其它（可根据需要 改写以上评估方式） Others (The above may be modified as necessary)	10%		实验预习报告 Experiment Preview Report

20. 记分方式 **GRADING SYSTEM**

<input checked="" type="checkbox"/> A. 十三级等级制 Letter Grading <input type="checkbox"/> B. 二级记分制（通过/不通过） Pass/Fail Grading

课程审批 REVIEW AND APPROVAL

21. 本课程设置已经过以下责任人/委员会审议通过
This Course has been approved by the following person or committee of authority

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