

## 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 <b>Course Title</b>	化学前沿研究 <b>Frontiers of Chemical Science</b>				
2.	授课院系 <b>Originating Department</b>	化学系 Department of Chemistry				
3.	课程编号 <b>Course Code</b>	CH210				
4.	课程学分 <b>Credit Value</b>	2				
5.	课程类别 <b>Course Type</b>	专业选修课 Major Elective Courses				
6.	授课学期 <b>Semester</b>	春季 Spring				
7.	授课语言 <b>Teaching Language</b>	中英双语 English & 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) <b>Instructor(s), Affiliation &amp; Contact</b> (For team teaching, please list all instructors)	张绪穆, 讲席教授, 化学系, <a href="mailto:zhangxm@sustech.edu.cn">zhangxm@sustech.edu.cn</a> Xumu Zhang, Chair Professor, Department of Chemistry, <a href="mailto:zhangxm@sustech.edu.cn">zhangxm@sustech.edu.cn</a>				
9.	实验员/助教、所属学系、联系方式 <b>Tutor/TA(s), Contact</b>	张晓鑫, 化学系, 15207104516 ZHANG XIAOXIN, Department of Chemistry, 15207104516				
10.	选课人数限额(可不填) <b>Maximum Enrolment (Optional)</b>					
11.	授课方式 <b>Delivery Method</b>	讲授 <b>Lectures</b>	习题/辅导/讨论 <b>Tutorials</b>	实验/实习 <b>Lab/Practical</b>	其它(请具体注明) <b>Other (Please specify)</b>	总学时 <b>Total</b>
	学时数 <b>Credit Hours</b>	32				32

12. 先修课程、其它学习要求 <b>Pre-requisites or Other Academic Requirements</b>	
13. 后续课程、其它学习规划 <b>Courses for which this course is a pre-requisite</b>	
14. 其它要求修读本课程的学系 <b>Cross-listing Dept.</b>	

### 教学大纲及教学日历 SYLLABUS

15. **教学目标 Course Objectives**

本课程培养学生对化学研究的兴趣，了解化学研究的前沿进展。

To enable the students to grasp the progresses and frontiers of current chemical research, and to develop their interest in chemical research.

16. **预达学习成果 Learning Outcomes**

本课程培养学生对化学研究的兴趣，了解化学研究的前沿进展。

To enable the students to grasp the progresses and frontiers of current chemical research, and to develop their interest in chemical research.

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.)**

每次课堂教学，化学系老师自选题目作一个 1-1.5 小时的讲座，留下两个相关题目让学生参与讨论。

课程安排如下：

第 1-4 次课讲授有机化学；

第 5-8 次课讲授无机化学；

第 9-12 次课讲授物理化学；

第 13-16 次课讲授分析化学。

Series of seminar topics presented by faculty members, cutting-edge research and progress in all areas of chemistry.

The schedule of FRONTIERS OF CHEMISTRY:

The first to fourth lessons- organic chemistry;

The fifth to eighth lessons- inorganic chemistry;

The ninth to twelfth lesson – physics chemistry;

The thirteenth to sixteenth lesson - analytical chemistry.

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

N/A

课程评估 ASSESSMENT

19. 评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance		50		
课堂表现 Class Performance				
小测验 Quiz				
课程项目 Projects				
平时作业 Assignments				
期中考试 Mid-Term Test				
期末考试 Final Exam				
期末报告 Final Presentation		50		
其它（可根据需要 改写以上评估方式） Others (The above may be modified as necessary)				

20. 记分方式 GRADING SYSTEM

- A. 十三级等级制 Letter Grading  
 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

化学系教学指导委员会  
 Teaching committee of the chemistry department