

## 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.	<b>课程名称 Course Title</b>	科学写作 Scientific Writing
2.	<b>授课院系 Originating Department</b>	生物系 Department of Biology
3.	<b>课程编号 Course Code</b>	BIO348
4.	<b>课程学分 Credit Value</b>	1
5.	<b>课程类别 Course Type</b>	专业选修课 Major Elective Courses
6.	<b>授课学期 Semester</b>	春季 Spring
7.	<b>授课语言 Teaching Language</b>	英文 English
8.	<b>授课教师、所属学系、联系方式 Instructor(s), Affiliation &amp; Contact</b> (For team teaching, please list all instructors)	肖波/生物系/xiaob@sustech.edu.cn XIAO Bo, Department of Biology, xiaob@sustech.edu.cn
9.	<b>实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact</b>	待公布/ To be determined
10.	<b>选课人数限额(可不填) Maximum Enrolment (Optional)</b>	

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	16				16
12. 先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	无/ None				
13. 后续课程、其它学习规划 Courses for which this course is a pre-requisite	无/ None				
14. 其它要求修读本课程的学系 Cross-listing Dept.	无/ None				

### 教学大纲及教学日历 SYLLABUS

#### 15. 教学目标 Course Objectives

This course will help students to:

1. Plan and organize the structure of a scientific publication
2. Learn to summarize complex information in an accessible form.
3. Understand writing as an exercise in communication to the reader.
4. Master the concepts of reader energy and expectation.
5. Develop an appreciation for the ability to critique other' s writing.
6. Understand the scientific publishing process
7. Understand the process of constructing scientific figures.
8. Understand the relationship between storytelling and scientific communications
9. Know what makes a good (and bad) scientific presentation.

这门课可以帮助学生:

1. 了解如何构建一篇科学出版物的架构。
2. 学会将复杂的信息整合成易读的形式。
3. 将写作理解为与读者交流的过程。
4. 掌握读者能量的概念以及如何达到读者的期望。
5. 学会评价和辩证看待其他人的写作。
6. 了解学术出版的基本流程。

7. 了解制作科学出版物图片的过程。
8. 掌握科学交流和展示自己工作的关系。
9. 知道如何进行成功的科学报告。

**16. 预达学习成果 Learning Outcomes**

Students will have a preliminary understanding about writing biomedical papers, including how to write various parts (Introduction, Methods and Materials, Results, Discussion) of a typical research paper for publication and understand about the function, organization, story line, emphasis of each part of a paper.

高年级本科生将初步了解生物医学论文的写作过程，包括如何撰写一篇典型研究论文的各个部分（介绍、方法和材料、结果、讨论），并了解论文各部分的功能、组织结构、逻辑脉络以及研究重点。

- 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.)**

This course is taught entirely in English, over 8 weeks, 2 hours per session.

Session 1: Introduction: writing a biomedical research paper for publication

Session 2: Words, Sentence and Paragraph Structures

Session 3: Writing the Introduction (Functions, Story line, Organizations for Hypothesis-Testing Papers)

Session 4: Writing the Materials and Methods (Functions, Story Line, Organization, Emphasis)

Session 5: Writing the Results (Functions, Story Line, Content, Organization, Emphasis)

Session 6: Writing the Discussion Figures (Functions, Story Line, Content, Organization)

Session 7: Supporting Material: Figures and Tables

Session 8: Writing the Title and the Abstract

本课程进行全英文教学，时长八周，每节课两小时。

课时 1: 介绍：如何撰写一篇生物医学类的研究论文

课时 2: 科研出版物的词汇、语句以及段落结构

课时 3: 如何写科研出版物的背景介绍（功能，逻辑，目录，组织及重点）

课时 4: 材料和方法部分的写作

课时 5: 结果部分的描述和写作

课时 6: 讨论延伸部分的写作

课时 7: 补充图片和表格的写作

课时 8: 论文标题和摘要的写作

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

**Textbook:** Essentials of Writing Biomedical Papers, 2nd Edition, By Mimi Zeiger

**Supplementary Readings :**

Schimel J, (2011) Writing Science.

Alley M. (1997) The craft of Scientific Writing.

Gopen GD. (2004) Expectations: Teaching writing from the Reader's perspective.

Lebrun J. Scientific Writing: A Reader and Writer's guide (2007) or Scientific Writing 2.0 (2011).

教材: Essentials of Writing Biomedical Papers, 2nd Edition, By Mimi Zeiger

参考材料:

Schimel J, (2011) Writing Science.

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Lebrun J. Scientific Writing: A Reader and Writer's guide (2007) or Scientific Writing 2.0 (2011).

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 <b>Attendance</b>		10		
课堂表现 <b>Class Performance</b>				
小测验 <b>Quiz</b>				
课程项目 <b>Projects</b>				
平时作业 <b>Assignments</b>		40		
期中考试 <b>Mid-Term Test</b>				
期末考试 <b>Final Exam</b>				
期末报告 <b>Final Presentation</b>		50		
其它 (可根据需要 改写以上评估方				

式)  
**Others (The  
above may be  
modified as  
necessary)**

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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**

本课程经生物系本科教学指导委员会审议通过。  
This Course has been approved by Undergraduate Teaching Steering Committee of Department of Biology.