课程大纲
COURSE SYLLABUS

1.	**课程名称(中英文)** **Course Title(Chinese and English)**	科学写作 Scientific Writing and Communication
2.	**课程类别 Course Type**	必修 Required
3.	**授课院系** **Originating Department**	生物系 Biology
4.	**课程学时 Credit Hours**	16
5.	**课程学分 Credit Value**	1
6.	**授课语言** **Teaching Language**	英文 English only
7.	**授课教师 Instructor(s)**	生物系众教授
8.	**先修课程、其它学习要求** **Pre-requisites or Other Academic Requirements**	无

9. 教学目标 Course Objectives

This seminar course will provide students with experience in developing and writing a scientific article for publication, writing for other scientists and the public.

This seminar course will help students to:

1. Plan and organise the structure of a scientific publication and grant application
2. Learn to summarise 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 how to manage the reader's expectations.
5. Develop an appreciation for and an 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.

10. 教学方法及授课创新点 Teaching Methods and Innovations

For better or worse, the major scientific communication language for Biology is English. To succeed in scientific research, either in academia or in industry the student must be equipped with the skills necessary to draft scientific writing and to interpret and synthesise other's writing. Students particularly lack training in scientific writing, especially writing for English journals, grant application and writing for the general public. This course is designed to improve this ability.

In this course, the students will learn not only how to improve and structure their writing, but also how to criticize and evaluate others' writing.

11. 教学内容及学时分配 Course Contents and Course Schedule

There will be assignments including preparation of articles for the popular press, research summaries for the scientific literature, the development of a research proposal or a scientific article, critiquing a proposal.

This course is taught entirely in English, over 8 weeks.

Session 1: The Scientific Publishing Process

Session 2: Storytelling and OCAR

Session 3: Plagiarism

Session 4: Reader Expectations

Session 5: The heart of the paper

Session 6: Figures

Session 7: Revising Texts

Session 8: How to read a paper

Session 9: Scientific presentations

Session 10: The key points, and other common problems

12. 课程考核 Course Assessment

	Assignments (100%): There will be bi-weekly assignments, and smaller exercises that ill tests the students mastery of the subject matter.
13.	**教材及其它参考资料 Textbook and 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).