



課 綱 Course Outline
生化暨分子醫學科學系碩士班國際組

中文課程名稱 Course Name in Chinese	英文科學論文寫作				
英文課程名稱 Course Name in English	Technical Writing of Science Dissertation in English				
科目代碼 Course Code	BMM_D0120	班 別 Degree	碩士班 Master' s		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
培養生命科學及生物技術專業人才在科技論文寫作之獨立思考、組織內容及精簡表達之能力。					
系教育目標 Dept.' s Education Objectives					
1	培養從事生命科學及生物技術之專業人才。 Cultivating professionals engaged in biochemistry and molecular medicine.				
2	培育學生具有自我學習、獨立思考與創新之能力。 Fostering students to acquire the capabilities of self-learning, independent thinking, and innovation.				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives	
A	具備生物技術相關學科之基礎知識。 Having a fundamental understanding of subjects related to biotechnological techniques.				
B	具備邏輯分析與解決問題的能力。 Having the capabilities of logical analysis and problem solving.				
C	具備資料整合、數據分析與書面及口頭報告能力。 Having the capabilities of data integration and analysis, and the skills of written and poster presentation.				
D	具備終生學習的能力。 Having the capability of lifelong learning.				

E	溝通協調能力與團隊合作之精神，及生物醫學工作人員專業倫理。 The spirit of communication, coordination, and teamwork, as well as professional ethics for biomedical workers.	
圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated		
課程大綱 Course Outline		
<p>This course is designed to introduce students to basic scientific writing skills. Students will review the general principles of clear, persuasive writing, and will apply these principles to writing for a scientific audience. Particular emphasis will be placed on conveying the significance of their current research, outlining the aims, and discussing the results for scientific papers. The course will teach students how to write effectively, concisely, and clearly, and takes them through the preparation of an actual scientific manuscript. Upon completion of this course students will be able to:</p> <ol style="list-style-type: none"> (1) Learn the steps of writing using structured writing exercises (2) Complete a solid draft of the Specific Aims and Background/Introduction sections of their research proposal and possibly additional sections (methods, results, or the entire essay) or another academic work, such as their first manuscript (with permission of the instructor). 		
資源需求評估（師資專長之聘任、儀器設備的配合．．．等） Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)		
<ol style="list-style-type: none"> 1. Invited Speaker: Dr. Steve Wallace; Speech and Discussion: Tips for Writing Scientific Papers. (The speech can be a departmental seminar and supported by the department.) 2. Some Video Teaching Material. 		
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods		
<ol style="list-style-type: none"> 1. This is a very practical course. Through lectures and discussion, the students can start his/her writing simultaneously. 2. The students taking the course should have finished most of his/her experimental works and ready for writing Ph.D. dissertation and manuscripts for publication. 		
其他 Miscellaneous		
<p>Grading Criteria Attendance and discussion 20%; dissertation and manuscript writing: each 40%</p> <p>Reference</p> <ol style="list-style-type: none"> 1. Steve Wallace: Writing Scientific Research Articles: Strategy and Steps. 2013 2. ASM Instructions to Authors 2013 3. Robert Day: Scientific English. Oryx 1992 		