



課 綱 Course Outline

海洋生物研究所碩士班生物多樣性及演化組

中文課程名稱 Course Name in Chinese	海洋天然物化學											
英文課程名稱 Course Name in English	Marine Natural Product Chemistry											
科目代碼 Course Code	MBT_50600	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												
天然物化學的進階課程，主要針對特定海洋天然物分子的分子結構、生合成途徑與其在海洋化學生態上所扮演的角色進行論述並以海洋生態的觀點討論海洋天然物分子的醫藥應用潛力。												
系教育目標 Dept.'s Education Objectives												
1	研究具有本土特色與國際競爭優勢的海洋生物多樣性及演化課題 Studying the topics of marine biodiversity and evolution with both local and international significance.											
2	培養具備海洋生物多樣性知識與研發能力以及國際觀的專業人才 Training professionals with knowledge, research capability, and global perspective in marine biodiversity.											
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	培養海洋生物多樣性及演化的認知及專業能力。 Professional knowledge and skills in marine biodiversity and evolution research.											
B	具備海洋生態保育及環境保護的概念。 Concepts of conservation of marine ecology and environment.											
C	具備獨立思考邏輯思辨及問題解決能力。 Capability of thinking independently and logically and solving problems.											
圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated												
課程大綱 Course Outline												

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| 1. Introduction |
| 2. Ecological Perspectives on Marine Natural Product Biosynthesis |
| 3. Marine Natural Products Chemistry as an Evolutionary Narrative |
| 4. Organism Patterns in Marine Chemical Ecology |
| 5. The Chemical Ecology of Marine Invertebrates |
| 6. Marine Chemical Ecology: Applications in Marine Biomedical Prospecting |

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.)

個人電腦、單槍投影機、白板

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

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| 1. 講師授課 |
| 2. 書報討論 |

其他

Miscellaneous

期中考30% 期末考40% 課堂表現30%