



## 課 綱 Course Outline

### 海洋生物研究所碩士班生物多樣性及演化組

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| 中文課程名稱<br>Course Name in Chinese  |  | 高階活性天然物                                      |                  |  |                    |
| 英文課程名稱<br>Course Name in English  |  | Special Topics of Bioactive Natural Products |                  |  |                    |
| 科目代碼<br>Course Code   |  | MBT_56470                                    | 班 別<br>Degree    | 碩士班<br>Master' s   |                    |
| 修別<br>Type  |  | 選修<br>Elective                               | 學分數<br>Credit(s) | 3.0  | 時 數<br>Hour(s) 3.0 |
| 先修課程<br>Prerequisite  |  |  |                  |  |                    |
| 課程目標<br>Course Objectives   |  |  |                  |  |                    |
| 國人在發展保健產品時，特別重視並選用天然生物資源作為原材料，正好配合現代保健產品的發展趨勢和特色，因此研究生瞭解天然物活性評估利於研發天然物發展為健康食品或其他保健產品，將有很大之潛力。 |  |  |                  |  |                    |
| 系教育目標<br>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<br>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<br>Training professionals with knowledge, research capability, and global perspective in marine biodiversity. |  |                  |  |                    |
| 系專業能力<br>Basic Learning Outcomes  |  |  |                  | 課程目標與系專業能力相關性<br>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。<br>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。<br>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。<br>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  |  |  |                  |  |                    |

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| Course Outline |
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| 1. Introduction<br>2. Ecological Perspectives on Marine Natural Product Biosynthesis<br>3. Marine Natural Products Chemistry as an Evolutionary Narrative<br>4. Organism Patterns in Marine Chemical Ecology<br>5. The Chemical Ecology of Marine Invertebrates<br>6. Marine Chemical Ecology: Applications in Marine Biomedical Prospecting |
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| 資源需求評估（師資專長之聘任、儀器設備的配合．．．等）<br>Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.) |
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| 課程要求和教學方式之建議<br>Course Requirements and Suggested Teaching Methods |
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| 其他<br>Miscellaneous |
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