



## 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                                       |                                                                                                                                            | 研究方法概論與實務                                 |                  |                                                                                          |                    |
| 英文課程名稱<br>Course Name in English                                       |                                                                                                                                            | Research methodology and work experience. |                  |                                                                                          |                    |
| 科目代碼<br>Course Code                                                    |                                                                                                                                            | MBE_51100                                 | 班 別<br>Degree    | 碩士班<br>Master' s                                                                         |                    |
| 修別<br>Type                                                             |                                                                                                                                            | 必修<br>Required                            | 學分數<br>Credit(s) | 2.0                                                                                      | 時 數<br>Hour(s) 2.0 |
| 先修課程<br>Prerequisite                                                   |                                                                                                                                            |                                           |                  |                                                                                          |                    |
| 課程目標<br>Course Objectives                                              |                                                                                                                                            |                                           |                  |                                                                                          |                    |
| 使研究生在選定指導教授之前，能夠多學習及體驗不同研究類群之研究方法論及實作技術。                               |                                                                                                                                            |                                           |                  |                                                                                          |                    |
| 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<br>Course Outline                                                 |                                                                                                                                            |                                           |                  |                                                                                          |                    |
| 1. 課程介紹                                                                |                                                                                                                                            |                                           |                  |                                                                                          |                    |

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| 2. 水生生物毒理測試技術(Techniques in Aquatic Toxicology)<br>3. 水質調查方法、實驗分析與資料處理<br>4. 海洋浮游植物調查方法與分析<br>5. 浮游動物之調查方法與分析<br>6. 魚類年齡查定方法<br>7. 珊瑚生殖與生態的研究方法<br>8. 海洋污染物調查方法<br>9. 仔稚魚資源之調查方法與分析<br>10. 潮間帶生物調查與觀察要領<br>11-13. 潮間帶生物調查與觀察實務<br>14-15. 溪流生態調查與實務 |
| 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.)                                                                                                                              |
| 課程要求和教學方式之建議<br>Course Requirements and Suggested Teaching Methods                                                                                                                                                                                 |
| 其他<br>Miscellaneous                                                                                                                                                                                                                                |
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