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②图玄東華大學

Course Outline 課

		海洋生物研究所碩	士班生物多		1	
中文課程名稱 Course Name in Chinese		生物統計分析及應用				
Cou	C課程名稱 rse Name in lish	Biostatistical Analysis and Application				
科目代碼 Course Code		MBE_53500	班 別 Degree		碩士班 Master's	
修另 Typ		選修 Elective	學分數 Credit(s)	2. 0	時 數 Hour(s)	2. 0
先修課程 Prerequisite						
			課程目標 e Objectives			
析、	卡方檢定、相關以	分析原理及應用,期使學 以及迴歸分析,並能有基 實際應用於研究資料分析	本之實驗設計			
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.

課程目標與系專業能 力相關性 系專業能力 Correlation between Course Basic Learning Outcomes Objectives and Dept.'s Education **Objectives** 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. 具備海洋生態保育及環境保護的概念。 В Concepts of conservation of marine ecology and environment. 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

- 1. Introduction to biostatistics
- 2. Descriptive statistics
- 3. Significance test
- 4. Comparing two samples
- 5. Analysis of Variance (ANOVA)
- 6. χ 2 test
- 7. Correlation and Regression
- 8. Experimental design

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.)

儀器設備:個人電腦(海生館提供)、套裝統計軟體

師資:海生館研究人員及聘任相關專業教授

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

課堂講授配合統計軟體操作。

評量方式:期中考 35%

期末考 35%

作業 30%

其他

Miscellaneous