

系所	環境生物與漁業科學學系	3 年級
課號 / 班別	B3103D46 / A	3 學分
科目中文名稱	海洋生物學	
科目英文名稱	Marine Biology	
每週授課時數	3 小時	選修
任課老師	倪怡訓	
開課期間	一學期	

一、教學目標 Objective	中文--- This course emphasizes ecological processes and adaptations that act to structure marine associations and permit their persistence through time. The course provides a brief survey (functional morphology) of the major marine living organisms; then stresses their habitat, community structures, adaptation, and inter-species interactions. English---
二、先修科目 Pre_Course	中文--- The course requires a certain minimum background in very basic concepts of biology, but not more than would be obtained from Biology. English---
三、教材內容 Outline	中文--- 1 Introduction of marine environment, Civilization and the sea 2 Overview of Biological, Chemical & Physical Oceanography 3 Marine primary producer-Phytoplanton; Marine plants 4 Marine secondary productivity - Zooplankton Larval and larval ecology 5 Oceanic nekton & their adaptation 6 Marine invertebrate: Porifera, Cnidaria, Ctenophora 7 Acoelomates: Platyhelminthes & Nemertea; Pseudocoelomate: Nematoda and Rotifera 8 Protostomes: Mollusca, Annelida & Arthropoda 9 Deuterostomes: Echinodermata, hemichordata & chordata 10 Coastal Ecology: Intertidal rocky & sandy shores 11 Estuaries; Mangroves 12 Coral Reefs; Deep sea biology 13 Food from sea 14 Drug from sea 15 Ocean pollution 16 Student presentations & term paper 17. Final Exam English---
四、教學方式 Teaching Method	中文--- Three 50-min. sessions per week. These will include lectures, student presentations and discussion periods. English---
五、參考書目 Reference	中文--- Nybakken, James W. (2001, 5th ed). Marine Biology: an ecological approach. HarperCollins College publishers, New York. English---
六、教學進度 Syllabi	中文--- refer to outline English---
七、評量方式 Evaluation	中文--- Grades will be based on, oral presentation and term paper (50%), and final exam (50%) English---

八、講義位址 http://	建置中
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