



課 綱 Course Outline
環境暨海洋學院學士班

中文課程名稱 Course Name in Chinese	生態學				
英文課程名稱 Course Name in English	Ecology				
科目代碼 Course Code	CES_10900	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
介紹並討論：生態學基本原則，包括物化及生物因子對生物個體、族群、群聚、地景、與生態系的影響；生態學的理论與方法；生態學在國內外自然資源與環境管理上的應用； 介紹並練習：生態調查與研究的規劃與工具、生態資料的搜集、整理與分析。					
院教育目標 College.' s Education Objectives					
1	培養兼具國際視野與本土關懷的學生 To develop students who care about local issues and have an international perspective				
2	培養具備自然科學與社會科學知識的人才 To educate students to have knowledge of both the natural and social sciences				
3	培養具備環境倫理與人文素養的環境公民 To teach students to be environmental citizens (i.e., knowledgeable about environmental ethics and human issues.).				
院基本素養與核心能力 College Basic Learning Outcomes				課程目標與院基本素養與核心能力 Correlation between Course Objectives and Basic Learning Outcomes	
A	具備自然科學與社會科學的基礎知識 To be knowledgeable of fundamental theories in the natural and social sciences.			●	
B	具備觀察、理解、闡釋自然環境與人類社會互動及變遷關係的能力 To be able to observe, understand, and interpret the changing interactions of natural resources and human society.			●	

C	具備多元資料收集策略、閱讀論文、撰寫環境報導及創意口頭報告的能力 To have the ability to collect data, understand scientific literature, and write and present environmentally related reports.	●
D	能終身學習、對環境維持熱情、關懷、並願意做出對在地環境獻身的承諾 To cultivate the values of lifelong learning, to maintain enthusiasm and concern for the environment, and to develop commitment to the local environment.	○
E	具備環境倫理觀、社會責任感與社會實踐 To develop and implement environmental ethics and social responsibility.	○
F	具備獨立思考、溝通協調與團隊合作的能 To think independently, to communicate effectively, and to cooperate with others as a team.	●
G	具備基本外國語文能力 The be able to communicate in a foreign language.	●

圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱
Course Outline

- 一、生態學的範疇與研究取徑
- 二、自然界的條件與資源
- 三、個體與族群生態學
- 四、群聚與生態系生態學
- 五、地景生態學與全球生態
- 六、人類生態
- 七、生態調查與研究的實務操作

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.)

電腦，多媒體器

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

課程要求：閱讀教科書與指定讀物，參與課中討論，參與分組實作；

教學進行方式：教師講授，分組實作

其他
Miscellaneous

Miscellaneous