



課 綱 Course Outline

自然資源與環境學系學士班

中文課程名稱 Course Name in Chinese	植物形態與分類				
英文課程名稱 Course Name in English	/				
科目代碼 Course Code	NRES20160	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					
一、認識植物的形態構造與分類 二、理解維管束植物的形態構造與演化 三、理解各門植物的世代交替					
系教育目標 Dept.'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)				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力 相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
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力 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力 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、植物界的分門。
- 二、各門植物的性狀、生活史及其分類。
- 三、維管束植物器官、構造及其演化。
- 四、各類植物的本土代表種類。

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.)

1. 單槍投影機、筆記型電腦、數位相機。

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

- 一、顯微鏡切片觀察
- 二、植物形態實察及攝影
- 三、課堂講授
- 四、投影片解說

其他 Miscellaneous

- 一、植物形態觀察報告 (50 %)
- 二、筆試 (50 %)

參考資料

Bold, H. C., Alexopoulos, C. J. & Delevorrias, R. 1987. Morphology of plants and Fungi. 5th edit. Harper & Row Publish, New York.
Rajan, S. S. 2002. Plant Morphology. Anmol Publ., New Delhi.
Stuessy, T. F. 2008. Plant Taxonomy: The Systematic Evaluation of Comparative Data. Columbia University Press, USA.

規劃負責老師：

單位主管：

系課程委員會審議通過日期：