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②國玄東華大學

課 網 Course Outline

自然資源與環境學系學士班

中文課程名稱 Course Name in Chinese		大氣科學概論					
英文課程名稱 Course Name in English		Introduction to Atmospheric Science					
科目代碼 Course Code		NRES40120	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	
1	多課程 requisite						
課程目標 Course Objectives							
介紹大氣中各種的現象,其演變規律與人類活動對它的影響。							
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		具備自然科學與社會科學知識的人才 lucate 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		會科學的基礎知識 ble of fundamental the	eories in the	e natural and		•	
В	To be able to ob	闡釋自然環境與人類社會 serve, understand, and natural resources and	d interpret	the changing		0	

С	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.	
Е	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

- 1. 大氣組成與構造
- 2. 大氣運動的原理與大氣環流
- 3. 氣象要素與天氣圖
- 4. 天氣系統
- 5. 氣象觀測與預報
- 6. 氣象災害
- 7. 大氣遙測
- 8. 氣候與氣候變遷

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.)

由從事大氣科學相關研究之教師授課,並請花蓮氣象站協助氣象要素、天氣圖、氣象觀測與預報之教學。

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

課堂講授與討論、參觀、野外實習、書報討論、影片欣賞。

其他

Miscellaneous

課程成績評定之依據和標準

Grading Criteria

上課表現,作業,報告,期中考,期末報告