

熱植所課程大綱 Syllabus

(2023.12)

課程中文名稱*： 全球生物多樣性保育國際框架與公約

課程英文名稱*： Global Biodiversity Conservation Framework and Conventions

對應核心能力*：

- 具備植物與微生物科學專業知識及實務技能
- 擁有獨立思考與判斷的能力
- 展現跨領域學習與創新能力
- 實踐團體合作與溝通解決問題的能力

對應基本素養*：

- 培養具人文與科學思考邏輯之熱帶植物與微生物科學與技術人才
- 掌握國際植物與微生物科學與技術研究方向與發展
- 積極主動關懷農業與糧食之相關社會議題
- 具備轉譯基因體學的創新應用能力

課程概述 Course Description*：

The course introduces three main international biodiversity conservation framework and conventions. It will be structured around a series of lectures and discussions on the various international conventions' implementations and their challenges. Biodiversity conservation is a value-based subject and many topics are ripe for discussion, especially topics related to society with contrasting social values, such as different attitudes towards species utilization and conservation. For this reason we will have a series of case discussions. Everyone will have chances to communicate your viewpoints and get to present at least one case. This will be an opportunity for you to practice your presentations/communication skills. Understanding how to use and criticize the primary literature is a vital skill. Accompanying each lecture I will assign one or two papers from the primary literature that I expect you to read, along with a broader reference list for your interest.

先修科目或先備能力 Prerequisite Course(s)

教師聯絡資訊 * Contact with teacher

Instructor: Dr. Hong Liu 客座教授、蔡文杰教授

E-mail: hliu@fiu.edu or tsaiwc@mail.ncku.edu.tw (for 蔡文杰教授)

Office: 生科院六樓 89603 室; Office Hours: 週三 2-5 pm

助教資訊 Contact with tutor

課程學習目標 * Course goal

※至少需輸入三項，每項不超過 80 bytes(中文字 2 bytes，英數 1 byte)

Please type at least three items. Each item must be less than 80 bytes. (1 Chinese character = 2 bytes. An letter = 1 byte)

序號	學習目標
1	Be aware of the major global conservation conventions
2	Understand the current issues in nature conservation
3	Understand the importance of taking an evidence-based approach to the management of biodiversity
4	Understand the value-judgments central to decisions in conservation biology
5	Be able to express themselves clearly in semi-formal presentations and debates

課程進度* Course Progress Outline (彈性密集課程每週 3 小時共 6 週)

(Feb 21 - April 3, every Wed 6-8)

週次 Week	進度 Progress Description
1- 2/21	Syllabus, introduction; International Union on Conservation of Nature (IUCN) and IUCN Redlist
2- 3/6	IUCN Redlist study case discussions and student presentations
3- 3/13	Convention on International Trade of Endangered Species of Wild Fauna and Flora (CITES)
4- 3/20	CITES case study discussions and student presentations
5- 3/27	Convention on Biological Diversity (CBD)
6- 4/3	CBD case study discussions and student presentations

教學方法* Teaching Approach(es)

序號	教學方法	分配(%)
	講授/討論/實作/報告/參訪/影音欣賞/個案研討/其他	總計需 100%
1	講授	30
2	討論	25
3	個案研討	25
4	報告	20
	(欄位不足請自行新增)	

課程教材* Course Material

<https://www.iucnredlist.org/>

<https://cites.org/eng>

<https://www.cbd.int/>

Other reading materials will be provided by instructor when needed.

參考書目 References

- Primack, R. B. 2014. Essentials of Conservation Biology. 6th Edition. Sinauer.Michael Soule (2013)
- The “New Conservation” . Conservation Biology 27: 895-897.
- Kareiva, Marvier and Lalasz (2012). Conservation in the Anthropocene – Beyond Solitude and Fragility. The Breakthrough
(<http://thebreakthrough.org/index.php/journal/past-issues/issue-2/conservation-in-the-anthropocene/>)
- Kareiva & Marvier (2011) Conservation Science: Balancing the needs of people and nature. Roberts and Company.

評量方式* Grading Criteria

- A. 具備植物與微生物科學專業知識及實務技能
- B. 擁有獨立思考與判斷的能力
- C. 展現跨領域學習與創新能力
- D. 實踐團體合作與溝通解決問題的能力
- E. 培養具人文與科學思考邏輯之熱帶植物與微生物科學與技術人才
- F. 掌握國際植物與微生物科學與技術研究方向與發展
- G. 積極主動關懷農業與糧食之相關社會議題
- H. 具備轉譯基因體學的創新應用能力

序號	評量方式 出席/平時測驗/期中考/ 期末考/個人口頭報告/ 個人書面報告/小組報告/ 作業/其他	分配 (%) 總計需 100%	對此評量方式可評量所培育之基本素養與核心能力，是者請打勾 V							
			A	B	C	D	E	F	G	H
1	出席 Attendance	10%								
2	小組口頭報告 Group oral presentation	30%		V	V		V		V	
3	小組書面報告 Group term paper	20%		V	V		V		V	
4	課程參與 Class participation	40%		V	V		V		V	

***課程與聯合國永續發展目標關聯程度調查** Survey of the course content relevant to UN SDGs and

SDGs 參考網站 reference website:<https://sustainabledevelopment.un.org/sdgs>

本課程內涵是否與永續發展目標相關，若有相關請選「是」再勾選項目。

Is the content of this subject concerning the following United Nations Sustainable Development Goals (SDGs)? If Yes, Please click. 是 否

- 消除貧窮 (No poverty)
- 消除飢餓 (Zero hunger)
- 健康與福祉 (Good health and well being)
- 教育品質 (Quality education)
- 性別平等 (Gender equality)
- 淨水與衛生 (Clean water and sanitation)
- 可負擔能源 (Affordable and clean energy)
- 就業與經濟成長 (Decent work and economic growth)
- 工業、創新與基礎建設 (Industry innovation and infrastructure)
- 減少不平衡 (Reduced inequalities)
- 永續城市與社區 (Sustainable cities and communities)
- 責任消費與生產 (Responsible consumption and production)
- 氣候行動 (Climate action)
- 海洋生態 (Life below water)
- 陸地生態 (Life on land)
- 和平與正義制度 (Peace justice and strong institutions)
- 全球夥伴 (Partnerships for goals)

***課程與職場共通職能關聯程度調查** Survey of the course content relevant to Workplace Competencies

本課程內涵與職場共通能力培養相關？若有相關請選「是」。

Does the content of this course include cultivation of the following Workplace Competencies? If yes, please click. 是 否

- 溝通表達 Communication and expression
- 持續學習 Continuous learning
- 創新 Innovation
- 問題解決 Problem solving
- 團隊合作 Teamwork

- 人際互動 Interpersonal interaction
- 資訊科技應用 Application of information technology
- 工作責任及紀律 Job responsibilities and disciplines

有關課程其他調查* Other surveys of courses

1.本課程是否規劃業界教師參與教學或演講? 否 No 是 Yes, 約 次
Is there any industry specialist invited in this course? How many times?

2.本課程是否規劃含校外實習 (並非參訪)? 否 No 是 Yes, 約 小時
hours
Are there any internships involved in the course? How many hours?

*3.本課程是否可歸認為學術倫理課程? 否 No 是 Yes, 含學術倫理課程 小時 hours

Is this course recognized as an academic ethics course? In the course how many hours are regarding academic ethics topics?

4.本課程是否屬進入社區實踐課程? 否 No 是 Yes, 社區名稱 (Community name)

Is this course recognized as a Community engagement and Service learning course? Which community will be engaged?

*5.本課程是否邀請國外學者參與? 否 NO 是 Yes(填是者續填 If Yes, continue answering) , 總計參與時數 total participating 小時 hours.

Does this course in this semester invite foreign scholar(s) to participate in teaching?

*6.本學期課程是否有線上授課? 否 NO 是 Yes(填是者續填 If Yes, continue answering, "0" is OK) ,

Does this course in this semester apply on line teaching?

同步 synchronous online teaching 小時 hours

非同步 asynchronous online teaching 小時 hours

同步與非同步混成 synchronous and asynchronous hybrid online teaching 小時

hours 以上總計線上授課 Total above on line teaching 小時 hours, 其餘為實體

課程 in-person teaching 小時 hours