

國立臺北教育大學通識課程校際選課 課程大綱

| | | | | | |
|----------|--|----|----|------|----|
| 開課學校 | 國立臺灣大學 | | | | |
| 開課單位/系所 | 森林環境暨資源學系 | | | | |
| 授課教師姓名 | 袁孝維 | 職級 | 教授 | 專/兼任 | 專任 |
| 中英文課程名稱 | (中文) 探索臺灣:自然環境與資源 (英文) Exploring Taiwan: natural environment and resources | | | | |
| 全英語授課 | <input checked="" type="checkbox"/> 是 <input type="checkbox"/> 否 | | | | |
| 課程領域別 | 可認抵(五)環境與自然科學領域 | | | | |
| 開放外校修課人數 | 共 2 人 | | | | |
| 學分數 | 2 學分 | | | | |
| 課程概述 | <p>Taiwan, an island country rich in biodiversity, located between Eurasian Plate and Philippine Sea Plate, the geological structure is quite young. The frequent orogeny in Taiwan form many towering mountains, so even though Taiwan is in the tropical and subtropical zone, the temperate climate can still be found at high altitudes. In addition, the creatures, adapted to different climates, are able to survive in Taiwan.</p> <p>Taiwan is also known from high percentage of endemic species. This is because in the Ice Age, Taiwan was connected to Eurasia. After the Ice Age, Taiwan was isolated by the ocean, and many lives gradually evolved into endemic species on the island. Nowadays, the proportion of endemic species in Taiwan is about 71% in mammals, 17% in birds, 22% in reptiles, 31% in amphibian, 19% in freshwater fish, 25% in plants, and 60% in insects.</p> <p>Although the land area of Taiwan is only 0.027% of the total of the world, the number of species is as high as 3.8%, which is 150 times the global average. Furthermore, the marine species around Taiwan are about 10% of the world, which is 361 times the average. Taiwan is not a country with large territory, while its rich biological resources are such amazing. Base on that, we invite guest speakers in different fields to talk about the geography, wildlife, ecosystem and culture of Taiwan. They will help</p> | | | | |

| | | | |
|--|---|---|--------------------------------|
| | students to learn more about the beautiful nature of Taiwan. Besides the lectures, students could also learn deeply through the 3 various field trips (2 assigned trips and 1 self-planned trip). | | |
| 課程目標 | It will give international students a wide range of background knowledge, increasing their understanding of Taiwan and enabling them to take advanced courses lectured in Chinese or partake in research in the future. | | |
| 教學內容及進度 (每週進度及教學內容簡述、課程若邀請學者專家演講，請敘明其姓名、單位、職稱及演講主題) | 課程內容 | | |
| | 週次 | 單元主題 | 授課教師 |
| | 第 1 週 | Introduction | Prof. Hsiao-Wei Yuan 袁孝維老師 |
| | 第 2 週 | Geology of Taiwan | Prof. Ludvig Löwemark 施路易老師 |
| | 第 3 週 | Amphibians in Taiwan | Prof. Chi-Chang Liu 劉奇璋老師 |
| | 第 4 週 | Snakes in Taiwan | Prof. Si-Min Lin 林思民老師 |
| | 第 5 週 | Freshwater Fish in Taiwan | Prof. Chi-Chang Liu 劉奇璋老師 |
| | 第 6 週 | Group Project Discussion | Prof. Hsiao-Wei Yuan 袁孝維老師 |
| | 第 7 週 | Flora of Taiwan | Prof. Jer-Ming Hu 胡哲明老師 |
| | 第 8 週 | Tea Culture and Science in Taiwan | Prof. Kai-Hsien Chen 陳開憲老師 |
| | 第 9 週 | My days in Taipei Zoo | Dr. Shih-chien Chin 金仕謙老師 |
| | 第 9 週 | Taipei Zoo Tour | Prof. Hsiao-Wei Yuan 袁孝維教授 |
| | 第 10 週 | Mammals of Taiwan | Dr. Jung-Tai Chao 趙榮台老師 |
| | 第 11 週 | Birds of Taiwan | Prof. Hsiao-Wei Yuan 袁孝維教授 |
| | 第 12 週 | Campus tour to NTU Herbarium and Zoology Museum | Prof. Jer-Ming Hu 胡哲明老師 |
| | 第 13 週 | Pelagic Ecosystems | Prof. Chih-Hao Hsieh 謝志豪老師 |
| | 第 14 週 | Climate Change in Taiwan | Prof. Chia-ying Ko 柯佳吟老師 |
| | 第 15 週 | Group Project Presentation | Prof. Hsiao-Wei Yuan 袁孝維教授 |
| | 第 16 週 | Final Exam | Prof. Hsiao-Wei Yuan 袁孝維教授 |

| | | | | |
|---|---|---------------------------------|-----|--|
| 指定閱讀資料及 延伸閱讀 (請詳列 <u>每週</u> 學生 應配合閱讀之篇章) | | | | |
| 成績評量方式 (請說明各項評量項目、比例及標準) | | 項目 | 百分比 | 內容 |
| | 1 | Attendance | 15% | Students should attend each class on time. When you enter the classroom, please scan the QR code for attendance. After 15:35, please get a yellow paper from TAs for your late arrival. [Online course] Please write down your "name" & "student ID" & "the question you would like to ask" (bonus) on the live stream chat room for your attendance. |
| | 2 | Pop quiz | 10% | The pop quiz will be taking place at the end of each class. Please answer the quiz on the paper or NTU COOL before leaving the classroom. |
| | 3 | Field trip reports/ assignments | 20% | We have two assigned trips, a Campus tour and a Taipei City Zoo tour, and one self-planned trip in which you can visit a place you are interested in as long as it is related to natural resources. Please finish your reports and upload them to NTU COOL within two weeks after the trips. |
| | 4 | Group project | 30% | Students will be divided into several groups, and you can choose from the following topics: - Related to natural resources, environments or events. - Compare the natural environment or events of your own country to Taiwan. - Choose a topic Prof. Hsiao Wei Yuan approves. |
| | 5 | Final exam | 25% | The final exam will be based on the content from the lectures. |
| | 6 | In-class | | You can earn extra points by answering or |

| | | | | |
|---------------------|---|------------|--|---|
| | | discussion | | asking questions during class. Please find TAs to sign your name and student ID after class if you answer or ask questions. |
| 課程網址 | (網址：http://，資料若無則免填) | | | |
| 其他補充資料 (資料若無則免填) | <ol style="list-style-type: none"> 1. Students should attend each class on time. After 15:35, you'll be noted as late arrival. 2. Students should participate actively in class discussion. 3. Students should review the PPT files given with the lectures after class. 4. Students should check CEIBA and NTU-mail often. | | | |