

Biodiversity	
Course Code:	DIC 8035 (NTNU) No.5494 (THU)
Credits	Three (lectures: 3 hr per week)
Organizers	Dr. Kuo-Fang Chung, Dr. Allen Chen
Time	Wednesday 14:00-17:00
Place	B208, Biodiversity Research Center, BRC, AS
Description	Impact of global environmental change on organisms is getting more and more significant. One of the worst situations is that the change has caused an unexpectedly high extinction rate of species in Earth history, i.e., one thousand times higher than fossil record. Biodiversity conservation now becomes one of the important and noticeable public agenda. Why is biodiversity so important? What is biodiversity? This is the main aim of this course to lead students to know "biodiversity" and the relevant researches, particularly the recent studies. Moreover, the course will also extend beyond biodiversity and introduce the policies for biodiversity conservation and management in different countries as well as existing or potential conflicts. Student questioning and discussing will be one of the two important parts in this course that will facilitate students to have better understanding of biodiversity. In the end, we hope this course not only providing the knowledge of biodiversity but also giving students a great chance to have critical thinking and discussing of the complex issues beyond biodiversity.
Purpose	<ol style="list-style-type: none"> 1. Lectures and presentations are designed to provide a fundamental knowledge of biodiversity and the current progress of biodiversity researches. 2. Students will have deeper understanding of the ecological relationship between human society and other organisms or ecosystems and ruminant future agenda and difficulties in biodiversity conservation.
Grade	70%-Biodiversity literature review and presentation related to PhD thesis topic 30%-Attendance/ Class Participation

Week	Date	Lecturer /Topic
Week 1	9/7	Dr. Allen Chen (BRCAS) Introduction
Week 2	9/14	Dr. Kuo-Fang Chung and Miss Tsui-Ya Liu (BRCAS) Museum/herbarium collections and biodiversity researches; HAST collection and curation
Week 3	9/21	Dr. Shih-Pin Huang and Dr. Kuo-Fang Chung (BRCAS) BRCAS fish collections and curation and TaiBOL
Week 4	9/28	Miss Meng-Min Hsueh and Dr. Kuo-Fang Chung (BRCAS) BRCAS zoological collections and curation

Week 5	10/5	Dr. Daphne Hoh (TaiBIF) and Dr. Kuo-Fang Chung (BRCAS) GBIF, TaiBIF and Biodiversity Informatics
Week 6	10/12	Dr. Jyh-Min Chiang (THU) Ecology and diversity of Crassulacean acid metabolism (THU)
Week 7	10/19	Dr. I-Min Tso (THU) Intraspecific phenotypic diversity in spiders and relevant mechanisms
Week 8	10/26	Dr. Chung-Te Chang (THU) Geospatial Analysis and Applications in Biodiversity and Ecosystems
Week 9	11/2	Prof. Allen Chen (BRCAS) Filed trip to Taoyuan algal reef
Week 10	11/9	Dr. Shao-Lun Liu (THU) Introduction of Taoyuan Algal Reef
Week 11	11/16	Dr. Colin KC Wen (THU) Diversity of Coral Reef Fish around Taiwanese Waters
Week 12	11/23	Dr. Li-Wei Wu (THU) Intercontinental Dispersals and Butterfly Biodiversity
Week 13	11/30	Dr. Yi-Ching Lin (THU) Community assembly rules for forest communities
Week 14	12/7	Prof. Allen Chen (BRCAS) Global marine biodiversity under the changing environment
Week 15	12/14	Prof. Allen Chen (BRCAS) Student presentation of biodiversity literature review
Week 16	12/21	Prof. Allen Chen (BRCAS) Trip to National Museum of Marine Science and Technology