

Biodiversity	
Course Code:	DIC 8011
Credits	Three (lectures: 3 hr per week)
Organizers	Dr. Kuo-Fang Chung, Dr. Allen Chen
Lecturers	Dr. Allen Chen, Dr. Kuo-Fang Chung, Dr. Yoko Nozawa Dr. Jen-Pan Huang, Prof. Colin Wen (THU), Prof. Yiching Lin (THU), Prof. Jyh-Min Chiang (THU), Prof. Shaolun Liu (THU)
Time	Tuesday 14:20-17:20
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% literature review/ student presentation 30% Attendance/ Class Participation

Week	Date	Lecturer /Topic
Week 1	9/10	Time : 14:00; Venue: 1F, Auditorium, BRC Building An expanded view of evolution encompassing micro- and ultramicro-evolutionary processes (Dr. Chung-I Wu, BRC SAB member) Introduction (Dr. Kuo-Fang Chung)
Week 2	9/17	Dr. Kuo-Fang Chung

		Museum/herbarium collections and biodiversity researches
Week 3	9/24	Dr. Kuo-Fang Chung and Dr. Shih-Pin Huang BRCAS fish collections and curation
Week 4	10/1	Dr. Kuo-Fang Chung and Miss Meng-Min Hsueh BRCAS zoological collections and curation
Week 5	10/8	Dr. Kuo-Fang Chung and Miss Tsui-Ya Liu BRCAS herbarium collections and curation
Week 6	10/15	Invited lecture: Fish diversity and marine conservation-Prof. Colin Wen (THU)
Week 7	10/22	Invited lecture: Long-term ecological research on tropical forest communities-Prof. Yiching Lin (THU)
Week 8	10/29	Invited lecture: Biodiversity and ecosystem functions-Prof. Jyh-Min Chiang (THU)
Week 9	11/5	NTNU Midterm examine week (No class)
Week 10	11/12	Marine biodiversity I (Allen Chen)
Week 11	11/19	Marine biodiversity II (Allen Chen)
Week 12	11/26	Impacts of human disturbance on the coastal biodiversity in Taiwan--- Trip to Taoyuan algal reef (Allen Chen)
Week 13	12/3	Coral reef ecosystems and the climate change (Dr. Yoko Nozawa)
Week 14	12/10	Invited lecture: Seaweed diversity and ecology-Prof. Shaolun Liu (THU)
Week 15	12/17	Lichen Biodiversity and Evolution (Dr. Jen-Pan Huang)
Week 16	12/24	Global biodiversity under the changing environment (Allen Chen)
Week 17	12/31	Student presentation (Allen Chen)
Week 18	1/7	Biodiversity outreach---Trip to National Museum of Marine Science and Technology (Allen Chen)