

Biodiversity	
Course Code:	DIC 8011
Credits	Two (lectures: 2 hr per week)
Organizers	Si-Min Lin
Lecturers	Sen-Lin Tang, Wen-Lung Wu, Daryi Wang, Shu-Miaw Chaw, John Wang, Benny Chan, Allen Chen, Ryuji Machida, Tung-Yuan Ho, Yoko Nozawa, Chih-Horng Kuo, Hwey-Lian Hsieh
Time	Tuesday 10:10-12:00
Place	1. NTNU F203 (first class, Gong-Guan Campus) 2. 2F Conference Room, Biodiversity Research Center, 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. There are many angles discussing about this agenda. Therefore student questions and discussion designed will be one of the two important parts in this course that will facilitate students to have more 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	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	20% Class participation 10% Attendance 50% Assignments 20% Oral presentation

Week	Date	Topic
Week 1	2/19	[An overview of biodiversity and its significance] What is Biodiversity? We are still discovering new species (Dr. Si-Min Lin and Dr. Sen-Lin Tang)
Week 2	2/26	[Biodiversity of genes or subcellular molecules]

		Diversification of Gene (Dr. Daryi Wang)
Week 3	3/5	[Biodiversity of species] Biodiversity of Plant (Dr. Shu-Miaw Chaw)
Week 4	3/12	Biodiversity of Ants (Dr. John Wang)
Week 5	3/19	Biodiversity of Crustacean (Dr. Benny K.K. Chan)
Week 6	3/26	Biodiversity of Shell (Dr. Wen-Lung Wu)
Week 7	4/2	Biodiversity of Cnidarian (Dr. Allen Chao-lun Chen)
Week 8	4/9	Biodiversity of Zooplankton (Dr. Ryuji Machida)
Week 9	4/16	Midterm
Week 10	4/23	Biodiversity of Prokaryotes (Dr. Chih-Horng Kuo)
Week 11	4/30	Biodiversity of Viruses (Dr. Sen-Lin Tang)
Week 12	5/7	[Biodiversity of ecosystems] Environmental Conditions and Phytoplankton Biodiversity (Dr. Tung-Yuan Ho)
Week 13	5/14	Comparative Biodiversity of Coral Reefs (Dr. Yoko Nozawa)
Week 14	5/21	[Biodiversity of continentals and beyond] Biodiversity and Global Environmental Change (Dr. Allen Chao-lun Chen)
Week 15	5/28	To be annouced
Week 16	6/4	Invited speech
Week 17	6/11	Student presentation
Week 18	6/18	Student presentation and Handing over essays