

Biodiversity	
Credits	Three (lectures: 3 hr per week)
Organizers	Dr. Kuo-Fang Chung
Textbook	Biogeography 5 th edition
Time	Wednesday 14:00-17:00
Place	Meeting Room, Greenhouse Building, Biodiversity Research Center, AS
Description	This course is designed for 1 st year TIGP-BIODIV students to have a comprehensive understanding of biological diversity through an in-depth reading of the textbook "Biogeography 5 th edition". Students or groups of students will lead the reading discussion and all students are expected to read the assigned chapters. During the course, I will also provide tips for student to write grant proposals, give feedbacks for students' assigned writings.
Purpose	1. Provide the fundamental knowledge of biodiversity and the current progress of biodiversity researches. 2. Train students with the ability to lecture and write grant proposal.
Grade	50%-Leading discussion 20%-Attendance/ Class Participation 30%-Grant proposal and report

Week	Date	Lecturer /Topic
Week 1	9/09	Introduction: Biodiversity and Convention on Biological Diversity (CBD) Ch 1: The Science of Biogeography Ch 2: The History and Reticulating Phylogeny of Biogeography (p. 40)
Week 2	9/16	Ch 3: The Geographic Template: Visualization and Analysis of Biogeographic Patterns Ch 4: Distributions of Species: Ecological Foundations (p. 61)
Week 3	9/23	Ch 5: The Distribution and Dynamics of Communities, Biomes, and Ecosystems (p. 43)
Week 4	9/30	Ch 6: Dispersal and Immigration (p. 34)
Week 5	10/07	Ch 7: Speciation and Extinction (p. 40)
Week 6	10/14	Ch 8: The Changing Earth (p. 50)
Week 7	10/21	GBIF, TaiBIF and Biodiversity Informatics
Week 8	10/28	Research Museum of Biodiversity Research Center by Dr. Shih-Pin Huang
Week 9	11/04	Ch 9: Glaciation and Biogeographic Dynamics of the Pleistocene (p. 42)
Week 10	11/11	Ch 10: The Geography of Diversification and Regionalization (p. 74)
Week 11	11/18	Ch 11: Reconstructing the Evolutionary History of Lineages (p. 56)

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Week 12	11/25	Ch 12: Reconstructing the Geographic History of Lineages and Biotas (p. 40)
Week 13	12/02	Ch 13: Island Biogeography (p. 76)
Week 14	12/09	Ch 14: Areography, Ecogeography, and Macroecology of Continental and Oceanic Biotas (p. 68)
Week 15	12/16	Ch 15: Biogeography of Humanity, Biological Diversity, and Conservation Biogeography Ch 16: From the Foundations to the Frontiers of Biogeography (p. 46)
Week 16	12/23	Final Report