

## Elective Course Description (1. Fall Semester)

Subject (English)	Ecology and evolution		Semester	Fall	Day/Slot	
科目名 (日本語)	生態と進化					
Course Code		Course Numbering	SBI-BIO801E		Period	Oct. - Feb.
Instructor (Post)	K.HIKOSAKA, <i>et al.</i> (Prof)				Campus	
					Building	
Faculty	Faculty of Science		Credits	2	Class Room	
Class subject		Ecology and evolution				
Object and summary of class						
This class object is to study basics and recent advances in ecology and evolution. Lectures will be given weekly						
Keywords	Ecology, Evolution, Adaptation, Global Change, Speciation, Environmental Responses					
Goal of study						
The goal of this class is to obtain the background knowledge concerting ecology and evolution.						
Contents and progress schedule of class						
<div>-Floral ecology of plants</div> <div>-Global change and plants</div> <div>-An introduction of Ecological Stoichiometry</div> <div>-Evolution</div> <div>-Reproductive isolation of plant species</div> <div>-Gene and genome duplication</div> <div>-Heterospecific mating interactions</div> <div>-Island biology</div> <div>-Microorganisms and environments</div> <div>-Functional ecology in plant response to environmental change</div> <div>-Biodiversity and ecosystem services</div> <div>-Dendrochronology</div> <div>-Regional floras and herbaria: source of information of ecological studies</div> <div>-Endosymbiosis and the origin of plants</div>						
Preparation		Nothing special				
Record and evaluation method		Attendance to the lectures 50%, reports 50%				
Textbook and references		Nothing (given in each lecture)				
Self study		Nothing special				
In addition						