

Year	Second semester 2025
Course	Ecology and Evolution
Day/Period	Tue.1Period
Credit(s)	2Credits
Instructor	SATOKI SAKAI
Eligible Participants	3rd grade and above
Course code/number	
Main Subjects	
Course of Media Class	
Practical business	
Language Used in Course	English
Course Title	Ecology and evolution
Purpose/Abstract	This class object is to study basics and recent advances in ecology and evolution. Lectures will be given weekly.
Goal	The goal of this class is to obtain the background knowledge concerting ecology and evolution.
Contents and progress schedule of the class	<p>Kass Jamie Michael Biogeography and global biodiversity patterns</p> <p>Hikosaka Kouki Global change and plants</p> <p>Kazuko Hase Animal group and social behavior</p> <p>Kanako Bessho Plant morphological plasticity caused by biological interactions</p> <p>Takashi Makino Gene and genome duplication</p> <p>Kazutaka Kimura Sexual selection and sexual conflict in animals</p> <p>Wataru Makino Heterospecific mating interactions</p> <p>Dansu Emmanuel Jesuyon Leslie Matrix Models for Age-Structured Populations</p> <p>Michio Kondoh eDNA analysis and its application to ecological monitoring</p> <p>Kazutaka Kawatsu Dynamical-data analysis in ecology</p> <p>Hajime Tomimatsu Physiological ecology of plants</p> <p>Watal Iwasaki Ecology and evolution in tumors</p> <p>Motonari Ohyama Dendrochronology</p> <p>Takuro Ito Adaptive Evolution of Plants in Extreme Environments</p> <p>Leanne Faulks Molecular ecology for freshwater biodiversity conservation</p>
Grading	Reports.
Books required/referenced	not available
Contents of preparation and review	Study for reports
Study time for preparation and review	<p>Standard Hours for Preparation/Review per class:</p> <p>*Lectures 4 hour</p> <p>*Seminar 2-4 hour</p> <p>*Experiment, Laboratory Work, and Skill Test 2 hours</p>
How to contact and Google Classroom Code	bh6rz35
Remarks	
Last Update	

One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.