

Course Name		Ethology (Hokkaido University)					
Instructor		Toshio TSUBOTA					
Other Instructor		Akira TERAO, Kentaro SAKAMOTO, Michito SHIMOZURU					
Credits	1	Semester	2Semester (3 rd year)	Req / Ele	Required	Type	Lecture
Key words:							
Course Description: Lectures will be given regarding ethological research fields, basic concepts of ethology, behavioral mechanisms, significance of behaviors, and development and evolution of behaviors.							
Course Goals and Objectives: Students will be able to understand the basic concepts of ethology, examine various animal behaviors from a scientific viewpoint, and learn approaches to research on animal behaviors.							
Course Schedule:							
<ol style="list-style-type: none"> 1. Introduction to ethology: History of ethology, four research fields, basic concepts, and consequences of domestication (by Shimozuru) 2. Factors affecting behaviors: Genetic factors and environmental factors (by Shimozuru): 3. Reproductive strategies and behaviors: Mating system, fitness, sexual behavior, rearing behavior and mate selection (by Tsubota) 4. Social behavior and communication between individuals: Attacking behavior, affiliative behavior, and pheromone (by Shimozuru) 5. Brain and behaviors: Cerebral limbic system, pleasure and displeasure, and fear (by Shimozuru) 6. Biological rhythm: Circadian rhythm, and sleep (by Terao) 7. Ethological studies on wild animals: Behavior tracking, and bio-logging (by Sakamoto) 							