

Course Name		Wildlife Biology and Medicine					
Instructor		Toshio TSUBOTA					
Other Instructors		(Tatsuo OSHIDA)					
Credits	2	Semester	2Semester(3 rd year)	Req/ Ele	Required	Type	Lecture
Key words: Wild animals, wildlife medicine, conservation medicine, conservation ecology, environment, ecosystem, biodiversity							
Course Description: Students will understand biological mechanisms and gain knowledge and wisdom useful for conserving natural environment without adversely affecting the balance in natural ecosystems. They will also learn knowledge and techniques necessary for conserving biodiversity when they apply veterinary and ecological expertise to preservation and management of wildlife. The lectures in this course cover general theories including an introduction to wildlife biology, basic concepts of ecosystems, issues related to wildlife and ethics, an introduction to conservation biology, and wildlife preservation and management, as well as particular topics such as capture of wildlife, anesthesia, physiology, diseases, rescue, zoo biology and legal systems.							
Course Goals and Objectives: Students will be able to:							
<ol style="list-style-type: none"> 1) Explain physiology and ecology of wildlife in terms of general theories and specific topics; 2) Gain an insight into prerequisites for biodiversity and natural ecosystems; 3) Make use of veterinary expertise and techniques in conserving biodiversity; and 4) Explain the methods for conserving biodiversity through integration of conservation ecology and conservation medicine. 							
Course Schedule:							
<ol style="list-style-type: none"> 1. Introduction to wildlife biology and medicine: Integration of conservation ecology and conservation medicine 2. Basic concepts of ecosystems 3. Issues regarding wildlife and ethics 4. Classification of wildlife 5. Morphology of wildlife 6. Physiology of wildlife 7. Ecology and habitat environment of wildlife 8. Capturing and anesthetizing wildlife I: Capturing and anesthetizing techniques 9. Capturing and anesthetizing wildlife II: Veterinary euthanasia techniques 10. Diseases of wildlife I: Non-infectious diseases 11. Diseases of wildlife II: Infectious diseases 12. Wildlife rescue and rehabilitation 13. Introduction to conservation biology 14. Wildlife preservation and control 15. Laws and policy debates related to wildlife 							