

Module Code	19349039	Course Term	
Course Subject Name	Animal and Marine Life Science	<p style="text-align: center; color: magenta; font-size: 2em;">Spring</p> <p style="text-align: center; font-size: 3em;">The 6th Semester</p>	
Course Tutor	Nobuhiko Yamauchi Associate Professor, Laboratory of Reproductive Physiology and Biotechnology Shotaro Nishimura Associate Professor, Laboratory of Functional Anatomy Shinobu Yasuo Associate Professor, Laboratory of Regulation in Metabolism and Behavior Akihiko Yamaguchi Assistant Professor, Laboratory of Marine Biology Tomonori Somamoto Associate Professor, Laboratory of Marine Biochemistry		
Credit	2		Taught Day
Schools	School of Agriculture		MON-3
Taught Year	The 3rd year		
Campus	Ito campus		
Subject Area	Lecture		
Course Subject Classification	Specialized Subjects	Monday, 3rd period (13:00-14:30)	
Course Requirements			
Course Requirement (Pre-requisite)			
Course Outline			
The course introduces and explores the basic knowledge of the aquatic organisms and land-dwelling animals with special focus on reproductive physiology, histology, molecular biology, immunology and sex differentiation.			
key words			
aquatic organisms, land-dwelling animals, physiology, histology, molecular biology, immunology			
Study Objectives (General)			
The objective is to gain a better understanding of the basic knowledge of the aquatic organisms and land-dwelling animals, to contribute to the use of animal resources.			
Study Objectives (Specific) The course aims to achieve the following:			
Students will be able to understand the basic knowledge of the aquatic organisms and land-dwelling animals with:			
A. Reproductive physiology			
B. Histology			
C. Molecular biology			
D. Immunology			
Course Plan			
As for this lecture, five teachers perform a basic lecture about each theme and learn a real study and experiments going for along the theme in a laboratory.			
1 Overview: Prof. Yamauchi			
1-3 Reproductive physiology: Prof. Yamauchi			
4-6 Histology: Prof. Nishimura			
7-9 Molecular biology: Prof. Yasuo			
10-12 Immunology: Prof. Somamoto			
13-15 Sex differentiation: Prof. Yamaguchi			
Course Approaches			
Textbooks			
Reference Books	Reproductive Physiology of Mammals, Keith K. Schillo, Delmar		
Study consultation (office hour)	e-mail: ny0531@agr.kyushu-u.ac.jp (Prof. Yamauchi)		
Exams/Results Evaluation Method	1. Attitude in the discussion 2. Attendance of the laboratory tour 3. Attendance of the fieldwork		
Others			