Module Code	20349041	Course Term
Course Subject Name	Utilization of Animal and Marine Resource	Spring
Course Tutor	Mitsuhiro Furuse	The 6th Semester
Credit	2	Taught Day
Schools	School of Agriculture	
Taught Year	The 3rd year	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Specialised Subjects	Thursday, 1st period (8:40-10:10)
Course Requirements		
Course Requirement		
(Pre-requisite)		
Course Outline		
From a standpoint of the effective utilization of livestock products, marine products and their biological components, this subject deals with biochemical, physiological		
and nutritional aspects of these animal bioresources. Students also learn the biotechnological aspects of food processing and preservation with special emphasis on the control of food quality and the utilization of highly functional active substances from these animal bioresources for non-food applications.		
Food Science, Biochemistry, Animal products, Animal resources, marine bioresources		
Study Objectives (General) This course is designed to let students be aware of the need for efficient use of animal bioresources and let them acknowledge the problem.		
Study Objectives (Specific)	The course aims to achieve the following:	
Specific Goals:		
A. To give students the fundame	ental and up-to-date knowledge or technology of animal	
B. To provide students with the	necessary terminology to effectively describe animal bioresour	ces and their essential characteristics.
C. To familiarize students with li	ivestock and marine products.	
D. To make students understand	d the importance that animal bioresources are useful in develo	ping medicines used to human health including age-related diseases as a
non-food.		
Courses Diam		
1 Introduction Overview of Animal biorecourses (Euruse) (May 7)		
1. Introduction - Overview of Animal bioresources (Furuse) (May 7)		
2. Food Biochemistry: Proteins (Nakao) (May 14)		
3. Food Biochemistry: Carbohydrates and lipids (Nakao) (May 21)		
4. Food Biochemistry: Nucleic acid, minerals, vitamins (Nakao) (May 28)		
5. Food Biochemistry: Proteins (Tatsumi) (June 4)		
6. Useful substances to improve animal bioresources (Tastumi) (June 11)		
7. Food processing technology of animal products (Tastumi) (June 18)		
8. Nutrition and functionality of animal products (Furuse) (June 25)		
9. Nutrition and functionality of animal products (Furuse) (July 2)		
10. Useful substances produced from animal bioresources (Nakao) (July 9)		
11. Uulizauon ol animal gene resources and genome information (Nagasawa) (July 16)		
12. Userul substances produced from marine bioresources (Ukino) (July 23)		
13. Useful substances produced from marine bioresources (Okino) (July 30)		
14. Report (1-13) (August 6)		
Course Approaches		
Textbooks		
Reference Books	Molecular biology of the cell	
	Office: Room #469 (representative : Furuse)	
Study consultation	Office Hours: Thursday 16.30-17.30	
(office hour)	furuse@brs.kyushu-u.ac.jp	
	092-802-4598	
Exams/Results		
Evaluation Method		
others		