

Elective Course Description (1. Fall Semester)

Subject (English)	Introduction to Fisheries Science		Semester	Fall	Day/Slot	
科目名 (日本語)	水産科学概論					
Course Code		Course Numbering	ABS-APS255E		Period	Oct. – Feb.
Instructor (Post)	TBC				Campus	
					Building	
Faculty	Faculty of Agriculture		Credits	2	Class Room	
Class subject	Introduction to Fisheries Science					
Object and summary of class						
This course provides an overview of the fishery science. Students will learn the fishery science on the basis of marine biology in a broad sense from molecules to ecosystems.						
Keywords	Fisheries science, basics & outlines					
Goal of study						
The goal is to understand the fishery science basically from ecology, physiology, genetics, molecular biology and evolution, and to appreciate the fishery science as the applied marine biology.						
Contents and progress schedule of class						
<ul style="list-style-type: none"> ● Topics on marine ecology and oceanography ● Lab Fisheries Biology & Ecology “How to know the fish age” “How to know the fish migration” ● Lab Marine Plant Ecology “Introduction to rocky subtidal communities” “The ecology of floating seaweeds” ● Lab Biological Oceanography. “Marine environment for marine organisms” “Plankton and benthos in the ocean” ● Topics on biology and biochemistry of aquatic organisms ● Lab Aquacultural Biology. “Manipulation of reproduction in bivalve mollusks” “Immunity in marine invertebrates” ● Lab Marine Biochemistry. “Function of marine lipids” “Food chemistry of fish and shellfish” ● Topics on fish genetics and biotechnology ● Lab Marine Life Science & Genetics. “Fish development and biotechnology” “Genetic conservation and sustainable use of resources in aquatic organisms” ● Lab Integrative Aquatic Biology. “Conservation genetics for fishery resources -1” “Conservation genetics for fishery resources -2” 						
Preparation	Refer to the recent topics in each field.					
Record and evaluation method	Attendance and report. The report should be directly submitted to the instructor of each lecture by the next lecture.					
Textbook and references	No textbook. Reference books will be introduced.					
Self study	Summarize the content of each class promptly.					
In addition	Questions, comments, and requests accepted. Send them to the representative instructor					