

## Graduate School of Fisheries and Ocean Sciences

### —Contact Information

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## ■ Graduate Studies in the Graduate School of Fisheries and Ocean Sciences

The Graduate School of Fisheries and Ocean Sciences was authorized by the Ministry of Education to open eight academic units (Department of Aquaculture, Ocean Environmental System Program, Department of Ocean Engineering, Department of Marine Production Management, Power System Engineering, Marine Food Science and Technology, Department of Aqua life Medicine) with an entrance quota of 30 applicants in October 2005. The Graduate School of Fisheries and Ocean Sciences offers night classes, and its master's program requires two-and-a-half years to complete. Applicants who apply for any program in the school are required to hold a bachelor's degree from a domestic or international university. This Graduate School aims to educate students on basic and practical theories and to provide research development that is applied to harbors, marine transport, marine resources, fishing industries, fish-raising industries, marine bio-manipulation, and food industries.

## ■ Degree Requirements

### ■ Credit Requirements

Applicants who apply for admission into the master's degree program should have one of the following qualifications at the time of application:

- Thesis degree: more than 24 credits
- Non-thesis degree: more than 36 credits

### ■ Foreign Language (English) and Comprehensive Final Examination

- Students taking the foreign language test should acquire more than 12 credits.
- The comprehensive final examination consists of three subjects. Applicants taking the examination should acquire more than 18 credits.

### ■ Preparation of Thesis

The master's thesis should be prepared using the Guidelines for the Preparation of Theses, available from the Graduate School.

### ■ Submission of Thesis

Students who pass the foreign language test and comprehensive final examination, and complete degree program requirements or are expected to complete the degree program requirements in the semester of submission can submit a thesis.

- **Advisors**

The Department Head may designate a faculty member for each student upon admission to guide them in their studies.

- **Limitations on Advisors**

A faculty member may not be assigned more than three students to advise per year.

## Department of Power System Engineering

### *— Contact Information*

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## ■ Graduate Studies in Power System Engineering

Power System Engineering is an academic field combining the mechanical engineering and the electrical/electronics engineering. Power System Engineering deals with the design, manufacture, control, and management of power machinery, thermal-fluid machinery, electrical/electronics machinery, etc. The Department of Power System Engineering aims for nurturing experts with state-of-the-art technology in the field of power system engineering. The department consists of five laboratories: internal combustion engine, hydraulic-pneumatic control, heat-fluid, applied mechanics, and electro-mechanical energy conversion.

## ■ Degree Requirements

To earn a master's degree, graduate students should pass a foreign language test and a comprehensive final examination. Also, the students should have one of the following qualifications:

- Thesis degree: more than 24 credits
- Non-thesis degree: more than 36 credits

## ■ What Do You Study?

Advanced Gas Turbine	System Design(Capstone Design)
Advanced Solid Mechanics	Advanced Combustion Engineering
Advanced Air Conditioning	Advanced Thermal Power Engineering
Advanced Measurement System	Advanced Thermodynamics
Advanced Engineering Mathematics	Advanced Heat Transfer
Advanced Machine Tools	Advanced Hydraulics-Pneumatics Control
Advanced Machine Design	Advanced Hydraulic Engineering
Advanced Mechanical Vibration Dynamics	Advanced Fluid Machinery
Advanced Engine Design	Electromagnetic field theory
Advanced Internal Combustion Engine	Design and Control of Automatic System
Advanced Dynamics	Advanced Electric Machinery
Analysis of Dynamic System	Advanced Motor Control Theory
Advanced Robotics	Advanced Accurate Machining
Advanced Mechatronics	Advanced Optimal Design
Advanced Numerical Analysis	

## ■ Professors

- Kyong-Uk Yang, Ph.D.  
[Professor, Hydraulic-Pneumatic Control,  
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- Woo-Gyeong Wang, Ph.D.  
[Professor, Internal Combustion Engine.  
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- Myung-Soo Choi, Ph.D.  
[Professor, Mechanical Vibration,  
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- Kyung-Hun Shin, Ph.D.  
[Assistant Professor, Electric Machine.  
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## ■ Laboratories

- Applied Mechanics Lab
- Hydraulic-Pneumatic Control Lab
- Internal Combustion Engine Lab
- Heat-Fluid Lab
- Electro-Mechanical Energy Conversion Lab

## Department of Aqualife Medicine

### *—Contact Information*

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### ■ Graduate Studies in Aqualife Medicine

The Department of Aqualife Medicine revolves around the exploration of fish disease management and prevention strategies. Our department is composed of eight main laboratories: pathogenic microbiology, histopathology, fish disease diagnosis, environmental physiology, preventative medicine for fish, fish pharmacology, clinical fish pathology, fish virology and clinical diseases.

### ■ Degree Requirements

To get a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval. The foreign language and comprehensive examinations are administered in February and August of each year.

### ■ What Do You Study?

Research Methodology  
Advanced Ontogeny  
Advanced Invertebrate Anatomy  
Microbial Genetics  
Molecular Studies in Fish Pathology  
Advanced Aquatic Toxicology  
Applied Fish Pharmacology  
Advanced Fish Immunology  
Advanced Fish Histopathology

Advanced Fish Anatomy  
Applied Aqualife Microbiology  
Advanced Diagnostic Fish Pathology  
Advanced Fish Pathology  
Advanced Fish Disease and Nutrition  
Prevention of Epizootics  
Advanced Environmental Analysis  
Advanced Environmental Physiology

### ■ Professors

- Eunheui Kim, Ph.D.  
[Professor, Pathogenic  
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- Jung Sick Lee, Ph.D.

- [Professor, Fish and  
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- Myung-Joo Oh, Ph.D.  
[Professor, Fish Virology and Parasitology,

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- Heung-Yun Kim, Ph.D.  
[Professor, Fish Physiology and  
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- Sung-ju Jung, Ph.D.  
[Professor, Fish Pathology and Immunology,  
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- So Young Kang, Ph.D.

[Professor, Fish Pharmacology and Pharmacognosy  
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- Toyohiko Nishizawa, Ph.D.  
[Professor, Virology and Cell Biology  
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- Wi-Sik Kim, Ph.D.  
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## Department of Maritime Police Science

### —Contact Information

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### ■ Graduate Studies in Maritime Police Sciences

Due to South Korea being a peninsula and therefore facing the sea on three sides and the geopolitical nature of the region, there is growing importance for maritime law enforcement. We are therefore aiming at cultivating professionals in the Maritime Police and strengthening competitiveness in the workforce through further education. In addition, the academic and research-based composition of Maritime Police personnel with experience in various research fields are required to improve the organization.

### ■ Degree Requirements

To get a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to graduate school regulations. Special graduate school students may earn up to 6 credits in principle per semester; this may be adjusted to within 3 credits with the President's approval.

### ■ What Do You Study?

Advanced Criminal Law  
Advanced Law of the Sea  
Advanced Marine Engine  
Advanced Vibration Analysis  
Advanced Fisheries Law  
Advanced Marine Safety  
Advanced Criminology  
Studies in Maritime Law  
Advanced Marine Navigation  
Studies in public law  
Advanced Response of Marine Oil Pollution

Advanced Fisheries Management  
Advanced Computer Aided Design  
Studies in Maritime Traffic Law  
Basic Studies in International Law  
Advanced Criminal Procedure  
Advanced Seamanship of Naval Vessel  
Advanced Marine policing  
Organization and Management  
Advanced Theory of police Investigation  
Advanced Ship Dynamics

### ■ Professors

• Dal-hyun Park, Ph.D.  
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• Duck-jong Jang, Ph.D.  
[Professor, Marine Safety,  
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- Ki-Soo Lee, J.S.D.  
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- Ho-Sam Bang, Ph.D.  
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## Department of Marine Bio Food Science

### *—Contact Information*

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## ■ Graduate Studies in Marine Bio Food Science

In the marine field, the Department of Marine Bio Food Science is leading the study of food material, quality, process, storage, distribution, sanitation, safety, and processing technologies.

The basic characteristics of marine food, marine products and development of multiple processing, the use of special functional ingredients for continued exploration concentrated focus on basic scientific literacy and to foster talent and value of marine food acquiring knowledge about the features and, Fisheries with the increase in food hygiene safety technical, process knowledge, quality improvement, the study of the spread of seafood by practicing in the field of marine fisheries industry to increase adaptability to lead the marine biotechnology industry is to nurture talent.

## ■ Degree Requirements

To obtain a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Special graduate school students may earn up to 6 credits in principle to semester. The foreign language and comprehensive examinations required are administered in February and August of each year.

## ■ What Do You Study?

Food Quality Control

Advanced Food Microbiology

Advanced Bio chemistry

Advanced Food Engineering

Advanced Food Enzymes

Advanced Nutritional Chemistry

Food Rheology

Advanced Food Preservation1

Advanced Canned Food1

Advanced Lipid Chemistry

Advanced Glucose Chemistry

Advanced Food Toxicology

Advanced Food Hygiene

Food Color Chemistry

Advanced Bioactive Substances

Food Stuff Technology

Marine Bioactive Substances

Advanced Antibiotics

Advanced Food Research

Advanced Food Chemistry

Food Analysis Technology

Advanced Food Flavour Chemistry

By-products Processing

Organoleptic Evaluation

Advanced Fermentation Technology

Lipid Food

Advanced Instrumental Analysis

Advanced Sea Weed Processing

Advanced Applied Microbiology  
Nutritional Biochemistry  
Functional Food Chemistry  
Physical Properties of Food  
Advanced Food Preservation2  
Advanced Canned Food2  
Advanced Vitamin Chemistry  
Advanced Food Biotechnology

Advanced Food Analysis  
Management for Food Hazard Point  
Advanced Fisheries Chemistry  
Advanced Food Additives  
Advanced Seaweed Chemistry  
Advanced Marine Resources Processing  
Food Resources Processing

## ■ Professors

- Dong-Soo Kang, Ph.D.  
[Professor, Fisheries Chemistry,  
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- Sun-Jae Kim, Ph.D.  
[Professor, Food Safety,  
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- Gin-Nae Ahn, Ph.D.  
[Professor, Marine Biotechnology,  
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- Sun-Hee Cheong, Ph.D.  
[Professor, Functional Foods,  
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## Department of Marine Production Management

### *— Contact Information*

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## ■ Graduate Studies in Marine Production Management

The future of the marine environment requires sustainable management of marine biological resources such as the management of fisheries, high-quality seamanship skills and safe navigation, and marine reorganization with an emphasis on marine ecology awareness. The aim is to train competent and creative marine technical personnel and experts who will lead the marine production and shipping industry by educating theoretical and practical skills on marine production, marine navigation, and fishery systems.

## ■ Degree Requirements

To earn a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to the appropriate graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval.

## ■ What Do You Study?

Thesis Research

Writing Thesis

Advanced Seamanship

Theory of Ship's Position Error

Theory of Vessel Motion

Fisheries Engineering

Fisheries Oceanography

Fishing Gear Engineering

Advanced Fishing Gear Design

Mechanics Fishing Gear Materials

Fishing Behavior

Advanced Fishing Technology

Fishing Physics

Fishing Vessel Ability

Fishing Machinery

Advanced Fishery Biology

Fisheries Data Processing

Fishing Ground Mechanism

Artificial Reef Engineering

Fishing Mechanism

Advanced Pelagic Fishery Technology

Acoustics Fishing Methodology

Measuring Instrument in Navigation

Advanced Theory of Navigation

Advanced Navigation

Advanced Fisheries Law

International Marine Law

Advanced Marine Meteorology

Oceanographic Environmentalism

## ■ Professors

- Doo-Jin Hwang, Ph.D.  
[Professor, Fisheries Acoustics,  
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- Taeho Kim, Ph.D.  
[Professor, Fisheries  
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- Hyong-Ho Shin, Ph.D.  
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- Jihoon Lee, Ph.D.  
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## ■ Laboratories

- Fishing gear and Measurement technology Lab
- Navigation Lab
- Fishing gear·Fishing Methodology Lab
- fishery system Lab
- Fishery Resources and Information Lab

## Department of Aqualife Science

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URL: <http://aqua.jnu.ac.kr>

## ■ Graduate Studies in Aqualife Science

The Department of Aqualife science is designed for aquaculture awareness and the conservation of aquatic organisms.

The main target areas are fishery aquaculture and seaweed aquaculture through the study of resource ecology, ecosystem modeling, reproductive biology, Advanced Bio-diversity and Conservational Biology, fish physiology, fish feeds, and Aquafarm Environmental Ecology studies.

The purpose of this program is to produce experts and researchers in the field of aquaculture through intensive study and study of both basic and applied sciences.

## ■ Degree Requirements

Master's degree candidates are required to earn 24 credits over a minimum of 2 years and 6 months.

Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam. Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

## ■ What Do You Study?

Advanced Genetics (3)	Advanced Breeding Science (3)
Advanced Developmental Biology (3)	Advanced Cell Biology (3)
Advanced Ichthyology (3)	Fish Population Dynamics Management (3)
Fishery Invertebrate Zoology (3)	Advanced Fisheries Administration (3)
Advanced FishFeeds (3)	Advanced Limnology (3)
Algal Physioecology (3)	Advanced Feed Biology (3)
Aquafarm Environmental Ecology (3)	Advanced Biochemistry (3)
Crustacea Culture (3)	Advanced Fishery Animal Nutrition (3)
Endocrinology (3)	Advanced Phycocultivation (3)
Advanced Marine Fish Culture (3)	Reproductive Ecology (3)
Management and Pathology of Aquatic Organism (3)	Advanced Marine Ecology (3)
Invertebrate Zoology Culture of SeaWater (3)	Invertebrate Zoology Culture of FreshWater (3)

Taxonomy of Invertebrate (3)  
Advanced Fish of Fresh-Water Culture (3)  
Fish Ecology (3)  
Semina 3 (3)

Semina 4 (3)  
Semina 2 (3)  
Thesis Research (3)

## ■ Professors

- Won Kyo Lee, Ph.D.  
[Professor. Reproduction organism  
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- Kyoung Ho Kang, Ph.D.  
[Professor. Invertebrate Culture  
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- Kyeong Ho Han, Ph.D.  
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- Kang Hee Kho, Ph.D.  
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- Sang Duk Choi, Ph.D.  
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# Naval Architecture and Ocean Engineering

## *— Contact Information*

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## ■ Graduate Studies in Naval Architecture and Ocean Engineering

Naval architecture and ocean engineering focuses on research and education in a variety of areas from basic theory to advanced technology on ships and offshore structures. The final goal of the Department lies in the design and production of reliable and cost-effective transport systems and offshore structures which can carry out missions successfully in harsh ocean environments. The research scopes of naval architecture consist of resistance and propulsion, propulsors, structures and materials, motion and maneuverability, noise and vibration, and welding. Ocean engineering involves various scopes of technical problems that arise during the design, construction, load-out, and operation of various forms of structures developed to meet the needs of the offshore petroleum and construction industries. Research on the ocean environment itself is also one of the major research fields of the Department. To meet increasingly complex technical demands, the Department extends research fields to cover rigorous analysis of detailed subjects using powerful computers. In particular, it offers on-board training courses on university-owned research and training ships.

## ■ Degree Requirements

To earn a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to the appropriate graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval.

## ■ What Do You Study?

Advance measurements engineering (3)

Advance manufacturing automation (3)

Ecosystem Engineering (3)

Advance manufacturing engineering of ship (3)

Advanced Theory of Ship Design (3)

Advance materials Science of ship (3)

Advanced Theory of Ship Propulsion (3)

Advanced Theory of Ship Resistance (3)

Advanced Fisheries Oceanography (3)

Advanced Numerical Methods (3)

Advanced Coastal Oceanography (3)

Advance welding process (3)

Advanced Hydrodynamics (3)

Finite Element Method (3)

Advanced Optimal Design (3)

Advanced Theory of Special Ships (3)

Advanced Potential Theory (3)

Sediment Transport and Littoral Processes (3)

AdvancedCoastalandHarborEngineering (3)  
Coastal Numerical Modelling1 (3)  
Coastal Numerical Modelling2 (3)  
Advanced Marine Measurement (3)  
Advanced Ocean Geoinformatics (3)  
Introduction to Ocean Thought (3)

Advanced Dynamical Oceanography (3)  
Advanced Operational Oceanography (3)  
Advanced Ocean Remote Sensing (3)  
Advanced Ocean Information Analysis (3)  
Turbulent Diffusion Theory in the Ocean (3)  
Advanced Marine Environmental Engineering (3)

## ■ Professors

- Moon-Ock Lee, Ph.D.  
[Professor, Environmental Hydraulics  
(Coastal Oceanography),  
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- Ok-Sam Kim, Ph.D.  
[Professor, Manufacturing  
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- Il-Heum Park, Ph.D.  
[Professor, Coastal and Ocean  
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- Jong-Kyu Kim, Ph.D.  
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- Hee-Jong Choi, Ph.D.  
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- Jee-Hun Song, Ph.D.  
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## Department of Environmental Oceanography

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## ■ Graduate Studies in the Ocean Environmental Systems

The Department of Ocean Environment Systems aims to carry out scientific and technological studies of the marine environment, the origin of life on earth. For students aspiring to be marine researchers, the Ocean Environment System Program is designed to provide advanced training in a specialized field.

## ■ Degree Requirements

To earn a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval.

When students take lectures offered in the special graduate school (including supplementary subjects), master's degree candidates must achieve a grade of C or higher, while Ph.D. candidates must achieve a grade of B or higher.

## ■ What Do You Study?

Advanced Aquatic Environmental Processes (3)  
Advanced Biology of Water Pollution (3)  
Advanced Chemical Oceanography (3)  
Advanced Coastal Oceanography (3)  
Advanced Community Ecology (3)  
Advanced Ecology of Fisheries Resources (3)  
Advanced Estuary Ecology 1 (3)  
Advanced Estuary Ecology 2 (3)  
Advanced Evolutionary Ecology (3)  
Advanced Fisheries Oceanography (3)

### Major Electives

Advanced Geological Oceanography 1 (3)  
Advanced Geological Oceanography 2 (3)  
Advanced Intertidal Ecology (3)  
Advanced Marine Biology of Benthos (3)

Advanced Marine Conservation Biology (3)  
Advanced Marine Conservation Ecology (3)  
Advanced Marine Ecology (3)  
Advanced Deep Sea Biology (3)  
Advanced Marine Planktology (3)  
Advanced Marine Pollution (3)  
Advanced Marine Pollution Control (3)  
Advanced Marine Pollution Ecology (3)  
Advanced Marine Sedimentology (3)  
Advanced Marine Zooplanktology (3)  
Advanced Ocean Bio-Genetics (3)  
Advanced Ocean-Ecotoxicology 1 (3)  
Advanced Ocean-Ecotoxicology 2 (3)  
Advanced Ocean Environmental Condition (3)  
Advanced Physical Oceanography 1 (3)  
Advanced Physical Oceanography 2 (3)

Advanced Red Tides (3)  
Environment Analysis of Fishing Area (3)  
Environment of Fisheries Oceanography (3)  
Fisheries Physical Oceanography (3)  
Fluid Dynamics for Oceanography (3)  
Instrumental Analytical Chemistry (3)  
Marine Environmental Ecology (3)  
Ocean Animal Behavior (3)

Ocean Eco-informatics (3)  
Paleo Oceanography 1 (3)  
Paleo Oceanography 2 (3)  
Regional Oceanography (3)  
Water Quality Control of Aquatic Culture  
Systems (3)  
Zooplankton Taxonomy (3)

## ■ Professors

- Yang Ho Yoon, Ph.D.  
[Professor, Phytoplankton Ecology  
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- Yeon Gyu Lee, Ph.D.  
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- Hyo-Sang Choo, Ph.D.  
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- Ihn-Sil Kwak, Ph.D.  
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