

II. Course Objectives, Policy

II-1. Course Objectives

The principal objective of the comprehensive, interdisciplinary Kuroshio Science course is the education through integrating and providing an overall perspective of a number of specialist fields. The course focuses on resources, environment and society, medical health science, food and nursing pertaining to the extensive regions and marine areas (hereinafter, Kuroshio Region) extending from the countries and regions of Southeast Asia to East Asia. Kuroshio Science aspires to promote education and capable people in the following ways:

- To train researchers and educators to possess a high level of expertise in their respective fields as well as knowledge of and perspective on different fields
- To train new types of researchers and educators who gain an understanding of the new concept that is Kuroshio Science and possess a broad global perspective
- To provide capable people who lay a foundation based on Kuroshio Science with a broad global perspective, as well as who can play an active part in regional industry and the business community

II-2. Education Policy

(1) Curriculum Policy

Education Content

The curriculum consists of a group of elective subjects for students to acquire specialist knowledge and skills, as well as a group of courses for students to develop a broad interdisciplinary and international perspective, an attitude toward science, and an approach to creating the future.

[Knowledge and Understanding]

(Kuroshio Science Program)

Through elective subjects, students will acquire advanced, cutting-edge knowledge in Multidisciplinary Science and Marine Resource Science.

(Marine Resource Science Course)

Through elective subjects, students will acquire advanced, cutting-edge knowledge in the humanities, social sciences, and natural sciences.

(Kuroshio Science Course)

Through elective subjects, students will acquire advanced, cutting-edge knowledge in ocean floor resource science and marine life sciences.

[Thinking and Judgement]

The Kuroshio Science Special Exercise is situated as a common special subject which is compulsory, and students aim to improve their thinking and judgment skills through their PhD research by formulating and presenting their research plans, organizing and reporting on their learning progress each semester, and reflecting on their mid-term presentations, among other activities.

[Interest and Ambition]

The Advanced Study on Kuroshio Science and Advanced Study of Future Co-creation are situated as common special subjects which are compulsory. Students are encouraged to have an interest in interdisciplinary cooperation and creative thinking and a willingness to apply themselves to solving problems in their area of expertise.

[Attitude]

Students will develop a researcher's attitude toward science by taking the required course, Scientific Literacy.

[Technical Skill and Expression]

The Kuroshio Seminar which is a presentation of research plans, and the Special Exercise which is a mid-term presentation, are compulsory. Students will develop the ability to communicate with others, including researchers in other fields, through presentations that are related to their own research.

Education Method

[Course Completion]

In order for students to acquire advanced specialist knowledge and to cultivate logical thinking and expressive skills, the program provides lecture courses and seminar-style classes.

[Research Guidance]

For student guidance, one supervisor and two or more co-supervisors are assigned to each students. One of the co-supervisors is from a specialist field different from that of the supervisor. Supervisors monitor the progress of each semester based on a one-year research plan and provide research guidance.

Education Evaluation

[Evaluation of Learning Achievement]

In the evaluation of study, the evaluation will be based on the grading standards set by the University. Learning outcomes for each subject are evaluated through written examinations, reports, presentations, class participation, and the results of seminars and experiments, according to the evaluation methods as described in the syllabus, for the degree to which the attainment objectives of the course subjects are achieved.

Assessments of doctoral dissertations are based on the Doctoral Dissertation Evaluation Criteria of this program. A Doctor of Philosophy (PhD) degree will be awarded to those who have earned the prescribed credits, submitted a doctoral dissertation and passed its review (evaluation from the perspectives of problem setting, examination of previous research, appropriate research methods, originality, and fulfillment of research ethics), and examination (in written or oral format).

[Curriculum Evaluation]

Conduct curriculum evaluations and make improvements while referring to student learning outcomes, research trends in specialized fields, progress reports for each semester, evaluations and opinions from outside the university.

(2) Diploma Policy

The principal objective of the comprehensive, interdisciplinary Kuroshio Science course is the education through integrating and providing an overall perspective of a number of specialist fields. The course focuses on resources, environment and society, medical health science, food and nursing pertaining to the extensive regions and marine areas (hereinafter, Kuroshio Region) extending from the countries and regions of Southeast Asia to East Asia. Kuroshio Science aspires to promote education and capable people in the following ways:

- To train researchers and educators to possess a high level of expertise in their respective fields as well as knowledge of and perspective on different fields
- To train new types of researchers and educators who gain an understanding of the new concept that is Kuroshio Science and possess a broad global perspective
- To provide capable people who lay a foundation based on Kuroshio Science with a broad global perspective, as well as who can play an active part in regional industry and the business community

[Knowledge and Understanding]

(Kuroshio Science Program)

Has highly specialized knowledge and technical skills in the specialized field that is the subject of degree research, as well as knowledge and perspectives from different academic disciplines.

(Marine Resource Science Course)

Has acquired advanced and cutting-edge knowledge and skills in each specialized area of marine resource science related to seafloor resources and marine life. Has also obtained knowledge and perspectives from academic disciplines in other fields.

(Kuroshio Science Course)

Has a high level of specialized knowledge and skills in each area of expertise related to their dissertation - humanities, social sciences, and natural sciences - as well as knowledge and perspectives from other fields.

[Thinking and Judgement]

(Kuroshio Science Program)

Has the ability to tackle issues related to the sustainable development of society, as well as the sustainable use and conservation of resources and the environment, on either a global or local scale, and can deduce effective countermeasures and conclusions through logical consideration.

(Marine Resource Science Course)

Has the ability to tackle issues from an interdisciplinary and international perspective, with a primary focus on contributing to the sustainable use and conservation of seafloor resources and the environment, and can deduce effective countermeasures and conclusions through logical consideration.

(Kuroshio Science Course)

Has the ability to tackle issues from an interdisciplinary and international perspective, with a primary focus on contributing to the sustainable development of society, and can deduce effective countermeasures and conclusions through logical consideration.

[Interest and Ambition]

(Kuroshio Science Program)

Demonstrates an interest in solving issues in their area of expertise, as well as a willingness to use their own knowledge and skills through a strong spirit of inquiry, and acts autonomously and continuously, with a high level of cooperation and ethics.

(Marine Resource Science Course)

Possesses a strong spirit of inquiry, and has the willingness to perform research and technology development when solving issues related to marine resource science. In addition, is capable of contributing to society with their interest in the environment and law from a comprehensive resource management perspective.

(Kuroshio Science Course)

Uses their own knowledge and skills to establish a sustainable society in harmony with the natural environment, and acts autonomously and continuously, with a high level of cooperation and ethics.

[Attitude]

Has an attitude of voluntarily and proactively applying the advanced specialist knowledge they have acquired for the benefit of society, based on a high awareness of ethics.

[Technical Skill and Expression]

Possess high-level presentation and communication skills to explain logical thinking, the decision making process and results.

[Assimilation and Approach]

By integrating advanced professional knowledge, skills, and ideas acquired and creating a dissertation, the results can be widely transmitted to society.