

## **6-1 Policy for the Conferral of Bachelor's Degrees**

### **1. Educational Goals**

Ochanomizu University's mission is to be "a place where all women who are motivated to learn can realize their earnest dreams." On that foundation, we develop global female leaders who can work as catalysts for a better future with people around the world. In other words, we nurture competencies that link practical knowledge to general knowledge and specialized knowledge, and develop members of society who can combine what they know into the comprehensive knowledge needed to transform society. To achieve these educational goals, degrees will be awarded to students who are enrolled in the relevant faculty for the stipulated number of years, complete the curriculum established in accordance with the educational philosophy and educational goals of the University and the faculty, achieve the academic goals indicated below, and earn the stipulated number of credits.

### **2. Curriculum**

- (1) Students will study in at least two specialized education programs established by each faculty and division/department, in accordance with the rules for selection of programs stipulated by the individual faculty and division/department.
- (2) The Division of Human and Social Sciences Human Developmental Sciences Program and the Division of Performing Arts of the Faculty of Letters and Education, and the Division of Nutrition and Food Science of the Faculty of Human Life and Environmental Sciences, have established four-year "special programs" in which students study according to the rules of the relevant division.

### **3. Academic Goals**

#### **A General education (General knowledge)**

Develop individuals who have knowledge related to the humanities, the social sciences, and the natural sciences, a cross-disciplinary perspective, an original awareness of problems, and the comprehensive basic ability to communicate with a diverse range of people.

#### **B High-level expertise (Specialized knowledge)**

Develop individuals who have the ability to gather and process information, examine it in a logical manner, and conduct scientific analyses of those materials on a solid foundation of specialized knowledge.

#### **C Ability to take action (Practical knowledge)**

Develop individuals who have the ability to identify problems themselves, apply their knowledge, discuss the matter, and solve the problems with concern for ethics and the good of the community.

#### **D Global leadership**

Develop individuals who have the foreign-language ability to understand diverse cultures and the variety of problems of the global community, and the ability to communicate, negotiate, and take action from an international perspective.

## **Faculty of Letters and Education**

### **1. Educational Goals**

The Faculty of Letters and Education will develop human resources who have the ability to analyze the phenomena of humans and their cultures and societies, from the macro level of society and environment with which humans are involved, to the micro level of individual thought and psychology, languages, literature, the fine arts, music, dance, and other arts, as well as the ability to act with mutual understanding of many people.

### **2. Division Organization and Academic Goals**

To develop human resources set forth in the educational goals of the University and the Faculty of Letters and Education, the Faculty will establish divisions (Division of Liberal Arts and Humanities, Division of Languages and Culture, Division of Human and Social Sciences, Division of Performing Arts, and Division of Global Studies for Intercultural Cooperation) and award degrees (humanities) to students who complete the stipulated curriculum, achieve the following academic goals, and earn the stipulated number of credits.

#### **A General education on a cornerstone of the humanities, language and cultural studies, human and social sciences, and art and expression**

- B High-level expertise in the humanities, language and cultural studies, human and social sciences, and art and expression
- C The ability to take action bolstered by the humanities, language and cultural studies, human and social sciences, and art and expression
- D Global leadership fully utilizing the humanities, language and cultural studies, human and social sciences, and art and expression

#### Division of Liberal Arts and Humanities

##### 1. Educational Goals and Characteristics

The Division of Liberal Arts and Humanities will develop human resources who have a comprehensive education and systematically learned a broad range of basic knowledge and deep specialized and applied knowledge regarding the philosophies, ethics, and aesthetic value created by humans, and the history and space walked by humanity, and who have observational abilities, the ability to take action, and leadership skills built on that foundation.

##### 2. Main Academic Goals

The academic goals of the specialized education programs conducted by the Division of Liberal Arts and Humanities are as follows.

- (1) The Philosophy, Ethics, and Art History Program will help students develop the “ability to think, ability to act, and ability to feel” from a fundamental and comprehensive perspective through analysis of text and images.
- (2) The Comparative History Program will help students develop thinking ability that enables them to survey the history of the regions of Japan, Asia, and the West and gain a comprehensive understanding.
- (3) The Environmental Geography Program will help students develop the comprehensive ability to connect the arts and sciences in regions and locations, as well as a sense of geographical scale on the local, national, and global levels, enabling them to resolve the various practical issues.

#### Division of Languages and Culture

##### 1. Educational Goals and Characteristics

The Division of Languages and Culture will develop human resources who have a comprehensive education and systematically learned a broad range of basic knowledge and deep specialized knowledge regarding Japanese language and literature, the languages, cultures, and societies of the Chinese-speaking world, the languages and cultures of the English-speaking world, and the languages, cultures, and societies of the French-speaking world, including acquiring a high level of proficiency in the relevant language, and who have the ability to take action and leadership skills built on that foundation. In addition, we will establish the Japanese Language Education Secondary Program in the Faculty of Letters and Education, and develop human resources who have the knowledge and practical skills required for Japanese language education that emphasizes the diversity of Japanese language learners in Japan and overseas.

##### 2. Main Academic Goals

The academic goals of the specialized education programs conducted by the Division of Languages and Culture are as follows.

- (1) The Japanese Language and Literature Program will help students acquire specialized abilities in Japanese language and literature and develop the ability to transmit/communicate those abilities.
- (2) The Chinese Language and Culture Program will help students develop solid proficiency in the Chinese language and learn knowledge and research methods related to contemporary and classical Chinese cultures.
- (3) The English Language and Culture Program will help students learn specialized knowledge and research methods related to the English language and the literature and cultures of the English-speaking world and develop the ability to accurately understand and communicate deep thought in English.
- (4) The French Language and Culture Program will help students acquire specialized knowledge and practical proficiency in the French language, understand the linguistic cultures and societies of the French-speaking world, and gain the ability to make a comparative study in relation to the cultures of the German-speaking world and other linguistic areas.

(5) The Japanese Language Education Secondary Program will help students gain an understanding of the psychology of learners of Japanese as a second language with diverse linguistic and cultural backgrounds acquire knowledge related to the theory and methods of improving those communication skills, something considered to be necessary in a globalizing society, and develop the ability to put that knowledge into action.

## Division of Human and Social Sciences

### 1. Educational Goals and Characteristics

The Division of Human and Social Sciences will develop human resources who have a comprehensive education and systematically learned a broad range of basic knowledge and deep specialized and applied knowledge regarding human social consciousness and behavior, character formation and development, psychology, and behavior, and who have practical skills and leadership skills built on that foundation.

### 2. Main Academic Goals

The academic goals of the specialized education programs conducted by the Division of Human and Social Sciences are as follows.

- (1) The Department of Sociology will help students develop the ability to observe humans and society broadly and fundamentally through theoretical and empirical methods.
- (2) The Department of Educational Sciences will help students develop the ability to think in a rich and creative manner about the ideal nature of humans and education.
- (3) The Human Developmental Sciences special program will help students develop the ability to utilize knowledge gained from a broad and fundamental observation of humans and society from the standpoint of education, for practical application in the educational setting of preschools and elementary schools.

## Division of Performing Arts

### 1. Educational Goals and Characteristics

The Division of Performing Arts will develop human resources who have a comprehensive education and systematically learned a broad range of basic knowledge and deep specialized and applied knowledge regarding music, dance, and other arts and expressive behavior, have developed the ability to put it into practice, and have practical skills and leadership skills built on that foundation.

### 2. Main Academic Goals

The academic goals of the specialized education curriculum conducted by the Division of Performing Arts are as follows.

- (1) The Dance and Dance Education Special Program will help students develop the ability to conduct theoretical analyses of dance, sports, and other human performance, as well as the ability to perform and apply the theoretical findings.
- (2) The Music Expression Special Program will help students combine theory and practice at a high level, and develop implementation and application abilities that enable them to reflect music and music history theory in performances.

## Division of Global Studies for Intercultural Cooperation

### 1. Educational Goals and Characteristics

The Division of Global Studies for Intercultural Cooperation is a program established jointly by the Division of Liberal Arts and Humanities, the Division of Languages and Culture, and the Division of Human and Social Sciences. The Division will develop human resources who have a comprehensive education and a broad range of basic knowledge and deep specialized and applied knowledge needed in the increasingly globalized contemporary world to achieve multicultural cooperation, and practical skills and leadership skills built on that foundation.

### 2. Main Academic Goals

The academic goals of the Division of Global Studies for Intercultural Cooperation are to help students acquire the knowledge, skills, ethics, and ability to take action that will enable them to understand differences between cultures, and while respecting those differences, to cooperate across those differences.

## Faculty of Science

### 1. Educational Goals

The Faculty of Science will develop human resources who have a comprehensive education and have deeply learned the knowledge and theory in the natural sciences accumulated by humankind, who have the research mindset and skills to elucidate new mysteries using scientific methods and attitudes, and who have the ability to create new value in cooperation with diverse people in a variety of areas that involve both nature and humans.

### 2. Department Organization and Academic Goals

To develop human resources set forth in the educational goals of the University and the Faculty of Science, the Faculty will establish departments (Department of Mathematics, Department of Physics, Department of Chemistry, Department of Biology, and Department of Information Sciences) and award degrees (science) to students who complete the stipulated curriculum, achieve the following academic goals, and earn the stipulated number of credits.

- A General education on a cornerstone of the natural sciences
- B High-level expertise in individual areas of the natural sciences
- C Proactive implementation of research in accordance with natural sciences methodology
- D Understanding of the significance of exercising leadership with a scientific attitude

## Department of Mathematics

### 1. Educational Goals and Characteristics

The Faculty will develop human resources who have gained comprehensive academic knowledge, acquired a mathematical education in the fundamentals and application, and developed the ability to approach and solve problems in a logical manner.

### 2. Main Academic Goals

The academic goals of the Department of Mathematics are for students to develop the following abilities.

- (1) The ability to understand mathematical formulas, express concepts in writing using mathematical formulas, and utilize a variety of mathematical concepts to think about things
- (2) The ability to abstract properties shared by multiple concepts
- (3) The ability to express concepts with concrete examples and think quantitatively and logically

## Department of Physics

### 1. Educational Goals and Characteristics

The Department of Physics will develop human resources who have acquired comprehensive academic knowledge, improved their ability to solve problems from the reductive and multidimensional perspectives through physics research, and developed the ability to play an active role in the various areas of society.

### 2. Main Academic Goals

The academic goals of the Department of Physics are for students to develop the following abilities.

- (1) The ability to express and understand the important basic physics concepts through the use of differential and integral calculus and other mathematics, and the ability to personally confirm important physical phenomena through experiments when possible
- (2) The ability to apply the appropriate laws and principles of physics to explain natural phenomena and other general problems
- (3) The ability to scientifically plan and conduct experiments and measurements and compile the results in a written report

## Department of Chemistry

### 1. Educational Goals and Characteristics

The Department of Chemistry will develop human resources who have acquired comprehensive academic knowledge, have a deep knowledge of the theories and knowledge of chemistry that are closely related to all areas of the natural sciences, with atoms and molecules as the intermediaries, and acquired the flexible thinking and superior problem-solving skills needed to take on the challenge of new mysteries.

### 2. Main Academic Goals

The academic goal of the Department of Chemistry is for students to develop the following abilities.

- (1) The ability to understand the important basic chemistry concepts
- (2) The ability to apply the appropriate concepts, laws, and principles to explain chemical phenomena

- (3) The ability to plan and conduct experiments and obtain highly reliable test data
- (4) The ability to compile test results in a report, from the perspective of chemistry and using scientific writing

#### Department of Biology

##### 1. Educational Goals and Characteristics

The Department of Biology will develop human resources who have acquired comprehensive academic knowledge, taken the courses in the Department's stipulated curriculum, developed a deep understanding of the theories and knowledge of the complex and diverse life phenomena of natural life, learned a broad range of high-level applied or advanced theory, knowledge, and implementation methods, and developed the ability to build rich knowledge assets throughout human society.

##### 2. Main Academic Goals

The academic goal of the Department of Biology is for students to develop the following abilities.

- (1) The ability to explain important basic concepts in biology, such as genes, cells, generation, evolution, ecosystems, and self-replication, using concrete examples
- (2) The ability to observe natural life in the field and identify species names, and explain natural life from the perspective of ecosystems
- (3) The ability to understand the meaning and significance of control experiments, personally build experiments that can verify hypotheses, and examine conclusions scientifically

#### Department of Information Sciences

##### 1. Educational Goals and Characteristics

The Department of Information Sciences will develop human resources who have acquired comprehensive academic knowledge and broadly studied programming, mathematics, and other basic information sciences knowledge and methods, and on that foundation, have experienced information sciences research based on scientific methodology in a specific mathematic or applicational area, and have developed the ability to broadly return to society the academic results and the abilities cultivated in the process.

##### 2. Main Academic Goals

The academic goal of the Department of Information Sciences is for students to develop the following abilities.

- (1) The ability to explain the important basic information sciences concepts in a theoretical manner
- (2) The mathematics and programming abilities needed to analyze and solve the variety of problems of nature and society
- (3) The ability to conduct research from the perspective of information sciences and present the findings at a Graduation Research Presentation Meeting

#### Interdisciplinary Programs

##### 1. Purpose of Interdisciplinary Programs

Interdisciplinary programs are intended to accommodate a new type of professional training that is in demand in cutting-edge research fields etc., and that can respond immediately to new integrated or interdisciplinary areas of specialization in science fields. It can only be selected by students majoring in the sciences (Faculty of Science; Department of Nutrition and Food Science and Department of Human-Environmental Science of the Faculty of Human Life and Environmental Sciences).

##### 2. Academic Goals of Each Interdisciplinary Program

###### (1) Interdisciplinary Program in Applied Mathematics

The Interdisciplinary Program in Applied Mathematics is a program provided by the Department of Mathematics, the Department of Physics, and the Department of Information Sciences. Its goal is to

help students learn mathematics, which serve as the foundation for other sciences through mathematical methods, and to learn broadly in areas that are actually applied, understand the usefulness of mathematical methods, and gain the ability to use those methods to solve problems.

(2) Interdisciplinary Program in Physics and Chemistry

The Interdisciplinary Program in Physics and Chemistry is a program provided by the Department of Physics and the Department of Chemistry. In the Program, students take specialized courses that further develop the basic contents of the relevant area learned in the main physics or chemistry program, while at the same time taking basic and specialized courses in mutual fields. Through this, the Program helps students to develop the basic abilities needed to play an active role in interdisciplinary physics and chemistry fields.

(3) Interdisciplinary Program in Chemical Biology

The Interdisciplinary Program in Chemical Biology is a program provided by the Department of Chemistry and the Department of Biology. The Program serves as a bridge for students who have acquired the basics of chemistry or biology to further develop that knowledge and thinking and advance to an interdisciplinary field that elucidates the functioning of biomolecules and living organisms. In addition to more deeply studying the mechanisms of life from the perspective of matter, students learn the foundation needed to elucidate the structure and function of biological matter and synthesize and create matter that controls biological functions.

(4) Interdisciplinary Program in Bioinformatics

The Interdisciplinary Program in Bioinformatics is a program provided by the Department of Biology, the Department of Chemistry, and the Department of Information Sciences. It provides students who have learned the fundamentals of the Faculty of Science with knowledge ranging from the basics to application in the interdisciplinary area of bioinformatics. The Program will help students acquire the minimum basic knowledge needed to conduct bioinformatics research and develop the logical thinking skills and technological strength needed to analyze a variety of data and extract new knowledge.

## Faculty of Human Life and Environmental Sciences

### 1. Educational Goals

The Faculty of Human Life and Environmental Sciences will develop human resources who have interdisciplinary academic knowledge regarding humans and life, and the ability to play an active role in society and conduct logical analyses from the perspective of ordinary people, based on education in the natural sciences, the humanities, and the social sciences.

### 2. Department Organization and Academic Goals

To develop human resources set forth in the educational goals of the University and the Faculty of Human Life and Environmental Sciences, the Faculty will establish departments (Department of Nutrition and Food Science, Department of Human-Environmental Science, Department of Human Life Studies) and grant degrees (life sciences) to students who complete the stipulated curriculum, achieve the following academic goals, and earn the stipulated number of credits.

- A Interdisciplinary education from the perspective of ordinary people
- B High-level expertise in the natural sciences, the humanities, and the social sciences from the perspective of ordinary people
- C The ability to implement expertise based on the perspective of ordinary people
- D Global leadership that utilizes the perspective of ordinary people

## Department of Nutrition and Food Science

### 1. Educational Goals and Characteristics

The Department of Nutrition and Food Science will develop leaders who are food and health experts with the perspective of ordinary people, and who have a scientific perspective on food and nutrition in particular, as well as the ability to put their knowledge into action.

### 2. Main Academic Goals

The academic goals of the specialized education curriculum conducted by the Department of Nutrition

and Food Science are as follows.

- (1) Help students learn the broad range of knowledge and thinking that serve as the foundation for the field of food and nutritional sciences.
- (2) Help students develop high-level expertise in each area of specialization in the field of food and nutritional sciences.
- (3) Help students develop the ability to implement food and nutritional sciences expertise that is applicable in society.

#### Department of Human-Environmental Science

##### 1. Educational Goals and Characteristics

The Department of Human-Environmental Science will develop human resources who have an understanding of the interaction of ordinary people and the environment, and the ability to formulate measures to enable humans and the environment to coexist and to implement those measures in the real world by applying scientific methods to the various problems of daily living.

##### 2. Main Academic Goals

The academic goals of the specialized education programs conducted by the Department of Human-Environmental Science are as follows.

The Department will help students develop basic academic abilities in science and engineering. In addition, the Department will position the comfort, convenience, safety, and peace of mind enjoyed by humans as important elements to ordinary people, and help students foster the ability to propose and implement concrete societal measures, in order to make it possible for humans to live while maintaining a balance with nature.

#### Department of Human Life Studies

##### 1. Educational Goals and Characteristics

The Department of Human Life Studies will develop human resources who have a comprehensive education, the ability to utilize a multifaceted and compound approach to individual development, psychological health, the relationship between humans and society, and life and culture, and the specialized knowledge, thinking ability, and ability to take action related to humans and life, from the perspective of ordinary people.

##### 2. Main Academic Goals

The academic goals of the specialized education programs conducted by the Department of Human Life Studies are as follows.

- (1) The Social Sciences and Family Studies Program will help students gain full command of advanced knowledge and research methodology in the social sciences, from the perspective of ordinary people.
- (2) The Cultural and Historical Studies Program will help students develop the intellect to consider the concept of life with the question "What is the truly abundant life?" from the perspective of the humanities, based on a cultural theory rooted in daily life, and the ability to put that knowledge into action.
- (3) The Gender Studies Secondary Program will help students develop the ability to analyze humans and society from the perspective of gender.
- (4) The Public Policy Secondary Program will help students develop the ability to elucidate the phenomena and problems that newly arise in society, based on empirical, practical analysis.

#### Department of Psychology

##### 1. Educational Goals and Characteristics

The Department of Psychology will develop human resources who have learned about the behavior and minds of humans and about health in these areas, in order to acquire the ability to objectively and comprehensively understand humanity and inquire accordingly, and who have the ability to provide support by helping people grow and adapt, from the perspective of ordinary people.

##### 2. Main Academic Goals

The academic goals of the specialized education programs conducted by the Department of Psychology are to develop skills at thinking logically and analytically about phenomena related to human behavior and minds, and to build a wide range of research skills in psychology, while acquiring the practical

skills to creatively utilize these skills in society and real life.

#### Interdisciplinary Program in Consumer Science

The Interdisciplinary Program in Consumer Science will be established as a shared interdisciplinary program of the Faculty of Human Life and Environmental Sciences, and will help students gain the ability to analyze and examine human life in an interdisciplinary and comprehensive manner, from the perspective of the consumer, and develop the ability to take action and display leadership as a proactive consumer.