

## SOKENDAI Freshman Course (Second Semester 2018)

The Freshman Course is an intensive course (4 days camp) for newly-enrolled students of SOKENDAI. This course has two objectives: (1) To acquire basic knowledge and skills required for all researchers; and, (2) To understand the SOKENDAI's broad range of intellectual fields, and create a network beyond your research field. This course consists of four sections: "Frontiers of Knowledge," "Student Seminar," "Researchers and Society," and, "Communication Skills for Researchers."

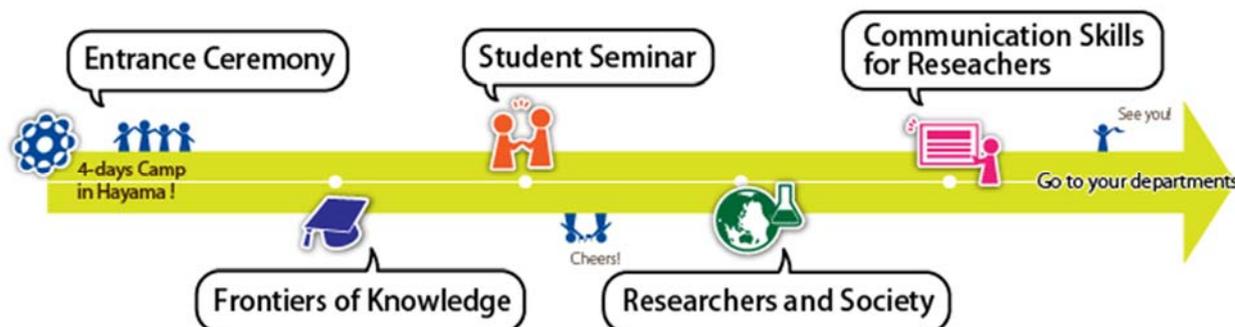
DATE: Tuesday, October 9<sup>th</sup> to Friday, October 12<sup>th</sup>, 2018

VENUE: SOKENDAI Hayama Campus

ELEGIBILITY: New and Current Students (three- and five- years Ph.D. programs)  
(Compulsory for the students of both five- and three- years programs, at School of Physical Sciences, of Multidisciplinary Sciences (except students of three-year doctoral program of the department of Statistical Science), of Life Science, and of Advanced Sciences)

LANGUAGE: English

CREDIT: 2 credits (Must attend all the sessions throughout the 4-day course, and complete all assignments)



### Frontiers of Knowledge

Panel discussion that helps you envision the goals in your SOKENDAI life, enrich your study, and start building your own career as a researcher.

### Student Seminar

Ice breaker activities and introduction of research fields, coordinated by current students.

### Researchers and Society

Learn and discuss social responsibility of researchers through workshop and lectures.

### Communication Skills for Researchers

Lecture and exercises to practice writing and presentation skills for researchers.

## SCHEDULE

Sessions for Freshman Course (FC) are indicated as [FC]

### TUESDAY, OCTOBER 9<sup>th</sup>

Timetable	Program/FC Sessions	Venue
12:00 - 13:00	Registration	SOKENDAI Hayama Campus Main Building Lobby (1 <sup>st</sup> floor)
13:10 - 13:40	Entrance Ceremony	
13:45 - 14:30	Lecture on IT Literacy /ORCID ID Registration	
14:30 - 15:30	Lecture on Mental Health	
15:30 -	Moving to 1st floor of Annex Building	--
<b>15:45 - 15:50</b>	<b>FC Opening Address [FC]</b>	SOKENDAI Hayama Campus Annex (1 <sup>st</sup> floor)
<b>15:50 - 18:20</b>	<b>Frontiers of Knowledge &amp; Student Seminar I [FC]</b>	
18:20 - 19:30	Reception (Dinner)	
19:30 -	Going to the Hotel (Lofos Shonan)/Check-in	Lofos Shonan

### WEDNESDAY, OCTOBER 10<sup>th</sup>

Timetable	Program/FC Sessions	Venue
7:00 - 8:30	Breakfast	Lofos Shonan Restaurant ACTY
8:45 - 9:00	Registration	Annex (1 <sup>st</sup> floor)
<b>9:00 - 11:30</b>	<b>Student Seminar II [FC]</b>	
11:30 - 13:00	Lunch with SOKENDAI President, Deans, and Faculty members	
<b>13:00 - 17:50</b>	<b>Researchers and Society I [FC]</b>	Lofos Shonan Restaurant ACTY
18:00 - 20:00	Dinner	

### THURSDAY, OCTOBER 11<sup>th</sup>

Timetable	Program/FC Sessions	Venue
7:00 - 8:30	Breakfast	Lofos Shonan Restaurant ACTY
8:45 - 9:00	Registration	Annex (1 <sup>st</sup> floor)
<b>9:00 - 12:10</b>	<b>Researchers and Society II [FC]</b>	
12:10 - 13:00	Lunch	
<b>13:00 - 17:50</b>	<b>Researchers and Society III [FC]</b>	Lofos Shonan Restaurant ACTY
18:00 - 20:00	Dinner	

### FRIDAY, OCTOBER 12<sup>th</sup>

Timetable	Program/FC Sessions	Venue
7:00 - 8:30	Breakfast	Lofos Shonan Restaurant ACTY
8:30 -	Check out	Lofos Shonan
8:45 - 9:00	Registration	Annex (1 <sup>st</sup> floor)
<b>9:00 - 12:10</b>	<b>Communication Skills for Researchers I [FC]</b>	
12:10 - 13:00	Lunch	
<b>13:00 - 16:00</b>	<b>Communication Skills for Researchers II [FC]</b>	
<b>16:10 - 16:30</b>	<b>Closing Remarks and Group Photo [FC]</b>	

## Frontiers of Knowledge

### **OUTLINE**

This course offers opportunities to think about researchers' career through a panel discussion. At the panel, SOKENDAI professors of different departments will show how they pursue their research and built their careers. Participating in this course will help students envision the goals in their SOKENDAI life and start building their own careers as a researcher.

### **CONTENTS**

Panel discussion on "Research Cycles at SOKENDAI" focusing on two topics:

1. Presentation: Examples of Research Cycles at SOKENDAI
2. Discussion: Research Cycles from different research fields

### **INSTRUCTORS**

Mutsumi Komatsu, Assistant Professor, the Center for Educational Development (CED)  
Hisashi Ohtsuki, Lecturer, Department of Evolutionary Studies of Biosystems (ESB)

## Student Seminar

### **OUTLINE**

Student Seminar aims at understanding the SOKENDAI's broad range of intellectual fields, and creating a network beyond your research field (department). Through icebreaker activities as well as introductions of research fields, coordinated by current SOKENDAI students (appointed as the Student Seminar committee members), the Seminar encourages interactions and communications not only among freshmen but also with current students and professors.

### **CONTENTS**

#### **Part I: Icebreaker Activities**

The Student Seminar committee members facilitate interactive communications among participants.

#### **Part II: Introduction of Research Fields**

The committee members deliver a presentation on their research field in a way that participants from different fields would also comprehend and develop their interest.

### **INSTRUCTORS**

Sayaka Uchikawa, Assistant Professor, CED  
Machiko Itoh, Assistant Professor, CED  
Michiyo Kinoshita, Lecturer, ESB

## Researchers and Society

### **OUTLINE**

In contemporary society, researchers are expected to have not only expertise in their specialty but also to fulfill their social responsibility as researchers. This course will offer opportunities to think about the roles of researchers in society through lectures and workshops.

### **CONTENTS**

#### **Part I (270 minutes): Introduction and Research Ethics**

In this part, students will learn and discuss research ethics, the ways how researchers should behave. Participants will be divided into small groups to discuss what makes someone a “good researcher,” besides research abilities and academic achievements. Through this discussion, participants are expected to think what social conditions make “good researchers” possible or impossible, and problems of research ethics that potentially arise. The small group discussion will be followed by a lecture on various questions of research ethics, including research fraud, authorship, peer review, conflict of interests, and social responsibilities of researchers.

#### **Part II (180 minutes): Social History of Research**

Social roles and responsibilities of researchers have been changing over time. This part will provide a lecture on the process in which social basis of research and relation between researchers and society has come to take the current forms. In particular, it will discuss moral dilemma and social responsibilities that emerged after the two great wars in the 20<sup>th</sup> century.

#### **Part III (270 minutes): Science Communication**

Contemporary research activities are supported by various research infrastructures. At the same time, research results can have both positive and negative effects on society. In this situation, researchers are expected to explain their activities to various actors in society. Often, different stakeholders frame problems related to research differently, which can make communication about research difficult. This part will take social problems related to genetically modified crops as an example to discuss this problem of different framing. Through a lecture and a workshop, it will provide students with opportunities to think about important questions of consensus building and social decision making about research, including what message researchers should convey to society, and what it means to understand different values in different standpoints.

### **INSTRUCTORS**

Kenji Ito, Associate Professor, ESB

Kaori Iida, Associate Professor, ESB

Nozomi Mizushima, Assistant Professor, ESB

Yukinori Onishi, Assistant Professor, ESB

## Communication Skills for Researchers

### **OUTLINE**

The ability to clearly communicate one's ideas, whether in the spoken or written medium, is essential for any researcher. The aim of this course is to develop basic scientific writing and oral presentation skills. Students will learn how to improve the composition of their reports and make effective presentations in order to make their ideas more easily understood by the reader or audience.

### **CONTENTS**

#### **Part I: Scientific writing**

**Lecture (90 minutes):** The lecture will cover composition of reports, and the structure of sentences and paragraphs. In addition, distinguishing between opinion and fact (including citations) shall be stressed. Many concrete examples of editing both sentences and passages shall be used to illustrate these points.

**Workshop (90 minutes):** In this workshop, students will have the opportunity to put the techniques they have learned into practice by editing actual articles.

#### **Part II: Academic presentation (180 minutes)**

*Academic presentation* covers how to orally communicate your research in a limited time with slides or a poster, with the goals of not only disseminating your findings but also eliciting valuable feedback from the audience. In this lecture, you will learn fundamental skills to improve your presentations, including structuring your talk, making effective visual aids, and incorporating the visual materials into your talk.

### **INSTRUCTORS**

Michiyo Kinoshita, Lecturer, ESB

Shohei Takuno, Assistant Professor, ESB

Hideki Innan, Associate Professor, ESB

Todd Gorman, English teacher, Institute of Genetics

Jeremiah S. Sechrist, Special-Appointment Lecturer, CED