

# **Guidelines for Applicants**

## **Master's Course**

**Admission in April, 2017**

**Admission in October, 2016**

**Graduate School of Environmental Science,  
Hokkaido University**

**April 2016**



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### Goals of Education

The goals of education in the Graduate School of Environmental Science are, on the basis of natural science, to promote education and research for tracking environmental processes and solving global environmental issues, and to foster researchers and professionals who cope with these issues. To achieve these aims, the Division of Earth System Science, Division of Biosphere Science, and Division of Environmental Materials Science are established for the study of these fundamental natural science disciplines, and the Division of Environmental Science Development is established to integrate these specialized fields and provide a comprehensive approach to facing environmental issues. Through study at these divisions, we aim to foster the specialized skills required to play an active role in the international community.

### Admission Policy

Graduate School of Environmental Science admits students with strong academic backgrounds in science who are interested in the global environment, the wide range of environmental problems that exist, and how to solve such global issues.

In addition, the Graduate School of Environmental Science also actively accepts working adults who wish to deepen their knowledge in environmental science while continuing to contribute to society, and foreign students who have the burning desire to study at the cutting edge of environmental science. For this reason, the graduate school has developed a diverse entrance examination that centers on confirming.



## 1. Important Dates and Information for Examinations for the Academic year 2016 / 2017

Entrance Period		<b>October, 2016</b>	<b>April, 2017</b>			
Entrance Examinations		Entrance Examination for October Admission	Special Selected Candidate Entrance Examination	Fall Entrance Examination	Fall Selected Candidate Entrance Examination / Fall Special Entrance Examination	Spring Entrance Examination
Dates	Examination Dates	<b>August 25 &amp; 26, 2016</b>	<b>May 30, 2016</b>	<b>August 25 &amp; 26, 2016</b>	<b>Oct. 24, 2016</b>	<b>Feb. 28 to March 1, 2017</b>
	Period of Preliminary review of Admission Qualifications	May 16 to 27, 2016	—	May 16 to 27, 2016	August 17 to 26, 2016 (Excluding for Environmental Materials Science)	Nov. 14 to 25, 2016
	Application Period	July 8 to 22, 2016	April 21 to May 13, 2016	July 8 to 22, 2016	September 20 to Oct. 5, 2016	Jan. 16 to 27, 2017
	Notification of the result	September 1, 2016	June 2, 2016	September 1, 2016	Nov. 10, 2016	March 7, 2017
Examination Venues	Sapporo	○	○	○	○	○
	Tokyo	—	○ (Only for Environmental Material Science)	—	○ (Only for Environmental Science Development & Environmental Materials Science)	—
Capacity (Note*)	Environmental Science Development (Capacity 44)	○	—	Approx. 20 to 30	○	Approx. 20
	Earth System Science (Capacity 35)	○ No applicants are accepted for course in Atmosphere-Ocean Climate Dynamics	—	Approx. 30	○	○
	Biosphere Science (Capacity 52)	○	Approx. 5 (students currently enrolled in an advanced course in a technical junior college)	Approx. 50	○	○
	Environmental Materials Science (Capacity 28)	○	Approx. 5 (students currently enrolled in an advanced course in a technical junior college)	Approx. 20	Approx. 5 (Students currently enrolled in a domestic four-year college)	○

(Note\*) The marked '○' in the fields of capacity indicates that successful applicants to be considered from several numbers to ten.

## 2. Request of Application Form

- Application Forms are distributed at Academic Affairs Office, Graduate School of Environmental Science (Kita 10, Nishi 5, Kita-ku, Sapporo).
- When you request the form by mail, enclose a return envelope (24cm × 33.2 cm, suitable for A4 paper) with postal stamps equivalent to 120 yen (400 yen for express mail) writing your name & address with postal code on the return envelope, write "Request for Guidelines for Applicants (Master's Course)" in red on the front of another envelope and send the following address.
- Request to: Academic Affairs Office, Graduate School of Environmental Science, Hokkaido University, Kita 10, Nishi 5, Kita-ku, Sapporo, 060-0810 JAPAN
- For any questions apply by telephone (011-706-2204•2205) or email (kyomu@ees.hokudai.ac.jp).

### 3. Admission Qualification

- ① Individuals who have graduated from a 4-year university in Japan (or who are expected to graduate by the month before the enrollment period).
  - ② Individuals who have been awarded a bachelor's degree from the National Institute for Academic Degrees and University Evaluation in Japan. (or who are expected to be awarded by the month before the enrollment period).
  - ③ Individuals who have completed 16 years of school education abroad (or who are expected to complete by the month before the enrollment period).
  - ④ Individuals who have completed 16 years of school education in a foreign country by taking a correspondence course provided by a school that foreign country while residing in Japan. (or who are expected to complete by the month before the enrollment period).
  - ⑤ Individuals who have completed a coursework of a designated foreign university in Japan equivalent to that of a foreign university (foreign university Japan campus designated by the Japanese Minister of Education, Culture, Sports, Science, and Technology). (or who are expected to complete by the month before the enrollment period). Specified course: Faculty of Liberal Art, , Media and Communication, Art, and Tourism and Hospitality Management of Temple University Japan Campus Course of Chinese Medicine, Tianjin University of Traditional Chinese Medicine Japan College
  - ⑥ Individuals who have completed a specialized course at a specialized training college on or after the date determined by the Japanese Minister of Education, Culture, Sports, Science, and Technology (The course must be designated by the minister, and the course term must be four years or more. It also must meet other standards established by the minister.) and individuals who are expected to complete such a course by the month before the enrollment period.
  - ⑦ Individuals designated by the Ministry of Education, Culture, Sports, Science and Technology (or who completed old system school, the National Defense Academy, Japan Coast Guard Academy, Meteorological College or College of each ministry, 1953 Notice No. 5, Ministry of Education, Science and Culture)
  - ⑧ Individuals who, by March 2016, have attended a Japanese university for three years or more or individuals who, as of March 2016, meet one of the following:
    - Those who have completed 15 years of school education in a foreign country
    - Those who have completed 15 years of school education of a foreign country by taking a correspondence course in Japan offered by a school of that foreign country
    - Those who have completed a coursework of a foreign university at an educational institution in Japan that is positioned within the school education system of that foreign country as an educational body with a university course (The completion of the coursework needs to be considered equivalent to the completion of 15 years of school education in that foreign country. In addition, the educational institution is required to be designated by the Japanese Minister of Education, Culture, Sports, Science, and Technology) Furthermore, all individuals who apply to this qualification need to be deemed by this graduate school to have achieved excellent grades in the subjects prescribed by Hokkaido University [Accelerated promotion: A preliminary review of admission qualifications is required.]
  - ⑨ Individuals who are at least 22 years old by the month before the enrollment period, and are considered to be academically equivalent to a university graduate [A preliminary review of admission qualifications is required.]
    - Those who have not graduated from a university of Japan or a foreign country
    - Those who have completed a university education in the country (from elementary school entrance to graduation from university in the country of the curriculum of 14 or 15 years) less than 16 years
- (Note)** If you wish to apply to study at this university while continuing your current career, consult an expected supervisor whom you wish to study under about the entrance examination and learning process before applying.

#### 4. Preliminary Review of Admission Qualifications

Those individuals that correspond to ⑧ or ⑨ in "3. Admission Qualifications" above must submit the required documents for the preliminary review of admission qualifications by the specified date for the preliminary review of admission qualifications. The result will be notified by the period of the application period in writing

Request for Application Forms

【Request to】 Academic Affairs Office, Graduate School of Environmental Science,  
Hokkaido University, Kita 10, Nishi 5, Kita-ku, Sapporo, 060-0810 JAPAN

Write “Request for Preliminary Review of Admission Qualifications (Master’s Course) Application Documents” in red of the front of the envelope and enclose the following things.

1. A return envelope  
(24cm×33.2 cm, suitable for A4 paper) with postal stamps equivalent to 120 yen (400 yen for express mail) writing your name & address with postal code on a return envelope
2. Paper which is written about “a” and “b” (no fixed format)
  - a. The qualification you belong to, ⑧ or ⑨
  - b. Your telephone number

Application Documents

Qualification	Required Documents	Remarks
⑧	Application form for the preliminary review of admission qualification	[Prescribed form]
	Curriculum vitae	[Prescribed form]
	Review Form (only applies to who have been accelerated academically)	[Prescribed Form] Prescribed form (Issued by the president or dean of the university and sealed up)
	Academic Transcript of university	
	Future goals	No fixed format (A4 paper, within 400 words)
	A Return Envelope (for notification of review result)	Write your name and address on a standard sized envelope, and paste the equivalent of 362 yen in postage stamps.
⑨	Application form for the preliminary review of admission qualification	[Prescribed form]
	Curriculum vitae	[Prescribed form]
	Academic transcript from high school and last attended school and others	
	Graduation Certificate of last attended school	
	Academic and research history from last attended school, details of research and actual working experience, and reason of application and research goals after acceptance, in one document	No fixed format (A4 paper, within 800 words)
	A Return Envelope (for notification of review result)	Write your name and address on a standard sized envelope, and paste the equivalent of 362 yen in postage stamps.

#### 5. Required Documents for Applications

You should submit the following documents within the application period.

【Submit to】 Academic Affairs Office, Graduate School of Environmental Science,  
Hokkaido University, Kita 10, Nishi 5, Kita-ku, Sapporo, 060-0810 JAPAN

Office hours 9:00-16:30 (excluded Saturdays, Sundays and national holidays)

- The documents with any flaw cannot be acceptable. Please be careful with your admission application to be completed.
- If any description of candidate found out to differ from the fact, we might cancel admission.
- In case of mailing, write “Application Form of Graduate School” in red on the front of the envelope, and send by simple registered mail (not later than the application period).
- Admission Cards for Examination are sent until one week before the examination date to those who are accepted as applicants.
- For any questions apply by telephone (011-706-2204•2205) or email (kyomu@ees.hokudai.ac.jp).

## ■ Required Documents for All Divisions

Divisions	Required for	Documents	Remarks
All divisions	All Applicants	Admission Application (1)~(3)	[Prescribed form] (2) shall be submitted only by those who majors that application.
		Identification Photographs (x 2)	A piece of photo taken within 3 months prior to application. (4cm x 3cm, upper body, facing forwards, with no hats or other headgear.) Write your name on the back of the photo, and attach it to the "candidate photograph."
		Academic Transcript	
		Graduation (Prospective) Certificate	Corresponding to 'qualification ②', a certificate of degree conferred issued by National Institution for Academic Degrees is required to be submitted. (In case when you are applying, "The certificate that they have accepted your application for your degree" is required.)
		Prescribed return envelope	[Prescribed envelope] Write name and address on the envelope provided by the office, and paste postal stamps equivalent to 362 yen.
		Prescribed Reply Address Label	[Prescribed label] Write name and address on the label provided by the office. (Do not attach to return envelope)
	Screening Fee	30,000 yen (Use [the prescribed payment slip] to remit payment, and attach the "Screening fee receipt" from the right side of the notification form to the specified section of the application form. The screening fee is non-refundable.) <b>•This fee is not required from Japanese government scholarship students, Hokkaido University special grant program for International students, and students of Scholarship Program supported by China Scholarship Council (CSC Program).</b>	
International Students	A copy of Resident Card or Passport	International Students who reside in Japan : A copy of your resident card Other foreign students : A copy of your passport	

## ■ Required Documents for Each Divisions

Divisions	Examinations	Documents	Remarks
Environmental Science Development	Applicants for Fall Selected Candidate Entrance Examination	TOEFL, TOEIC or ILETS Score Sheet	Refer to "TOEFL, TOEIC or IELTS Score Sheets"
	Fall Selected Candidate Entrance Examination	Self-recommendation	Self-recommendation detailing self-evaluation of their abilities in studying. (one A4 sized paper)
		2 Letters of Recommendation	Letters of recommendation from 2 persons who are able to accurately judge the academic ability of the applicant. Please download the letter of recommendation form from the Division of Environmental Science Development homepage.
Earth System Science	Those applicants who choose b) method for the specialized subject examination (Except Atmosphere-Ocean and Climate Dynamics)	Short Essay	A short essay in English on the reasons for their application and research themes that they want to follow within this graduate school. (A4 size, approximately 1500 words)
		Short Essay	Applicants shall contact the course supervisor or the chief of the course by 2 weeks prior to the application deadline. The short essay (approximately 1,600 words) on assigned shall be submitted with admission application documents.
Biosphere Science	Special Selected Candidate Entrance Examination	TOEFL, TOEIC or ILETS Score Sheet	Refer to "TOEFL, TOEIC or IELTS Score Sheets"
	Fall Special Entrance Examination		
	Special Selected Candidate Entrance Examination	Self-recommendation	Applicants shall submit a self-recommendation (A4 size, approximately 600 words, may be word processed), that includes an overview of research undertaken to date (or background) and reason for application. In case of no graduation research required at the college, applicants may write on a research topic they wish to follow in this graduate school



Biosphere Science	Special Selected Candidate Entrance Examination	A Letter of Recommendation	A letter of recommendation from the school principal or head of department (or equivalent person).(Letter should include information on the applicant's general academic knowledge of English and biology. No fixed format, approximately one A4-sheet in length)
	Spring Entrance Examination	Short Essay	Short essay (past studies [including contents of bachelor's thesis], reasons for application and future goals within approximately 1,600 words) This shall be submitted with the application documents. It shall be used as reference in the oral examination.
Environmental Materials Science	Applicants of Self-recommendation selection (Fall Entrance Examination, Spring Entrance Examination, Entrance Examination for October Admission)	Self-recommendation	Applicants shall submit a self-recommendation (A4 size, approximately 600 words, may be word processed), that includes an overview of research undertaken to date (or background) and reason for application. In case of no graduation research required at the college, applicants may write on a research topic they wish to follow in this graduate school
	Special Selected Candidate Entrance Examination		
	Fall Selected Candidate Entrance Examination		
	Special Selected Candidate Entrance Examination Fall Selected Candidate Entrance Examination	A Letter of Recommendation	For the special selected candidate entrance examination, a letter of recommendation from the school principal or head of department (or equivalent person). For the fall selected candidate entrance examination, a letter of recommendation from the department head or course supervisor (or equivalent person). (Letter should include information on the applicant's general academic knowledge of English and chemistry. No fixed format, approximately one A4-sheet in length)
Applicants who took the right tests	TOEFL, TOEIC or IELTS	Refer to"TOEFL, TOEIC or IELTS Score Sheets"	

## TOEFL, TOEIC or IELTS Score Sheets

### (1) Valid Score Sheets

The validity of the score sheet is within 2 years preceding from the date of entrance examination. TOEFL-ITP, TOEIC IP and TOEIC BRIDGE scores are not recognized. As for IELTS, the academic module is solely acceptable.

### (2) How to submit

TOEFL	<p><b>1. Both of the following are required when submitting a TOEFL score sheet.</b></p> <p>①A copy of the Examinee's Score Record shall be submitted with the application.</p> <p>②The Official Score Report shall be sent directly from ETS to the Graduate School of Environmental Science, Hokkaido University.</p> <p><b>2. How to Request the Official Score Report</b></p> <p>①When sitting the examination, request that the report is sent to this graduate school with the code number 8744. (free of charge)</p> <p>②After sitting the examination, request that the report is sent by ETS from the Additional Score Reports Service to this graduate school with the code number 8744. (charges apply)</p> <p>Note</p> <p>1) See the CIEE homepage (<a href="http://www.cieej.or.jp">http://www.cieej.or.jp</a>) for details.</p> <p>2) Be sure to request the Official Score Report as soon as possible to ensure that it arrives at this graduate school by the examination date if applicants can not submit it in application periods.</p>
	TOEIC
IELTS	Submit a copy of the Test Report Form with the application.

## 6. Examination Venues

Sapporo venue: Graduate School of Environmental Science, Hokkaido University  
Kita 10, Nishi 5, Kita-ku, Sapporo  
Tokyo venue: Hokkaido University Tokyo Office  
Sapia Tower 10F, Marunouchi 1-chome 7-12, Chiyoda-ku, Tokyo

## 7. Selection Method

Successful candidates are selected after evaluation of admission tests (foreign language examination, specialized subjects examinations, oral examinations, and basic academic skills examination) and submitted documents (transcript, recommendations, essays, etc.).

## 8. Announcement of Successful Applicants

The list of accepted candidates by examinee's numbers will be notified on the bulletin board in the lobby of the Graduate School of Environmental Science on the day of the announcement day of the results (refer to page 1). The examination result will be also sent to each applicant by mail. Individual applicants will not be informed of results by telephone, e-mail, fax etc. The accepted candidates will receive the notification of admission procedure.

## 9. Admission Procedure

- Accepted candidates of Entrance Examination for October Admission : The procedures should be conducted by admission package with Letter of Admission within the designated period (early September).
- Accepted candidates of Spring Entrance  
【Spring Entrance Examination】The procedures should be conducted by admission package with Letter of Admission within the designated period (early March).  
【Excluding Spring Entrance Examination】The procedures should be conducted by admission package mailed in mid February within the designated period (early March).  
(apart from Letter of Admission)

## 10. Admission Fee and Tuition Fee

Admission Fee: 282,000 yen

Tuition Fee: 267,900 yen for a half semester (535,800 yen for annual)

※The fees stated above are scheduled fee amounts. If the fees are revised at the time of admission or during the course, the new revised fees shall be applied.

## 11. Longer -term Course

Please refer to next page for details.

## 12. Handling of Personal Information

Name, sex, date of birth, address, and other such personal information provided on application documents is only used by Hokkaido University for selection of applicants and admission processes to the graduate school. The information stated above of successful applicants is only used for the purposes of academic affairs matters (student's registration, study guidance), student support (health-care management, scholarship application, etc.), and tuition fee business. Names and addresses may be used for correspondence from Hokkaido University Frontier Foundation, and allied organization of the university, namely (1) Hokkaido University Athletic Union and (2) the Clark Memorial Foundation at Hokkaido University. The information stated above is not used for other purposes.

## 13. Matters to be attended to

- The admission examination cards are required to be brought and should be put on your desk on the examination day.
- The use of any other device such as calculators, dictionaries, and so on than writing utensils and watches (excluded with communication function and calculator function) is not permitted unless indicated the otherwise.
- The examinees are not allowed to leave the room until the finishing time of the writing examination.

## **Long-term Course (Guidance)**

### **1. Purpose**

Students who have a job or the other commitments (including nursing care and childcare) may apply for the offer to complete a planned curriculum over a period beyond the standard term of study (2 years), after individual examinations, a system that can recognize their planned courses (hereinafter referred to as "long-term course").

### **2. Qualified Person**

A person who is under any of the following conditions for each item, and, by the reason, because you cannot concentrate on schoolwork, who want to set a long-term completion (research) years in advance, can apply.

- (1) Those who serve in public agencies or the companies (except for the person who receive salary and exempt from duties) or their own work in a profession such as full-time business
- (2) In this institute, those who attach to the profession, such as part-time, who are admitted that there is a significant influence on the schooling by its burden
- (3) In this institute, by child care, nursing care of relatives etc, equivalent to previous 2 articles, who are admitted that there is a significant influence on the schooling by its burden

### **3. Period of attendance at school**

The study term of long-term course is, in the master's course in less than 4 years, you can apply for a year as a unit. The maximum period of school term of the master's course of the long-term course students is the admitted period of long-term course plus 2 years.

The period of absence allowed in this institute is the long-term course students and the standard students up to 2 years as well.

### **4. Application Procedure**

#### **(1) Application Period**

Generally, you must apply for a long-term course when you submit an admission application form.

#### **(2) Documents to submit**

- ① Long-term Course Application Form (Form 1)
- ② Long-term Course Plan (Form 2)
- ③ Documents to prove that long-term course is required

#### **(3) Screening and result notification**

In case of application for long-term course offered, the notice will be informed the applicant.(Notice period of screening result: approx. mid-March)

### **5. Shortening and Extension of Course Period**

When necessary, this institute admits only once the shortening or extension of the long-term course period. However, the period that you can apply for a reduction of the long-term course period is up to the period plus 1 year to the standard course term (2 years).

### **6. Tuition Fee**

Tuition fees of those who are admitted as a long-term course students, become the amount obtained by dividing the amount of tuition fees of the standard study term (the annual amount × 2years) in the number of years of the long-term course admitted as annual. When a change of the fee or the long-term course period is permitted, it is recalculated each time. However, there is no retroactively adjusted already paid tuition fee.

**【Please do not pay the tuition fee of long-term course absolutely until the notice of settlement is informed.】**

### **7. More information**

Please contact Academic Affairs Office for the application form and more information.

## 14. Examinations and required documents by each division

### Division of Environmental Science Development

#### 1. Time Schedule of Examination, Examination information, and others.

Examination	Date	Subject	Time	Remarks
Fall Entrance Examination	Aug 25 2016	Foreign Language	10:00~12:00	Refer to '3. Foreign Language'
		Specialized Subjects	13:00~15:00	Refer to '4. Specialized Subjects'
Entrance Examination for October admission	Aug 26 2016	Oral Examination	Announced later	Refer to '5. Oral Examination'
Fall Selected Candidate Entrance Examination	Oct. 24 2016	Oral Examination	Announced later	Refer to '5. Oral Examination'
Spring Entrance Examination	Feb. 28 2017	Foreign language	10:00~12:00	Refer to '3. Foreign Language'
		Specialized Subjects	13:00~15:00	Refer to '4. Specialized Subjects'
			Only Course in Practical Science for Environment will conducted the specialized subject. The specialized subject examination will not be conducted in other 3 courses.	
	Mar. 1 2017	Oral Examination	Announced later	Refer to '5. Oral Examination'

#### 2. Advance contact of expected supervisors

Before applying, all students wishing to sit entrance examinations must inquire by either way as indicated below to confirm the availability of their expected supervisor.

- 1) If you have decided which supervisor that you want to be considered for admission, contact the course supervisor directly by email referring to the list of expected supervisors in this guidebook (See page 16).
- 2) If you have not decided which supervisor that you want to be considered for admission, you should contact the chief of a division you wish to be considered for admission (kigaku@ees.hokudai.ac.jp).

#### 3. Foreign Language

- Foreign language shall be "English."
- Applicants submitting a TOEFL, TOEIC, or IELTS score do not have to sit the English examination.
- Applicants submitting a score can also sit the English examination. (The higher of the two scores will be converted to the English examination result score using a conversion formula specified by the division).
- Applicants for the Course in Global Environmental Management should submit a TOEFL, TOEIC, or IELTS score sheet wherever possible.
- Those applicants for Fall Selected Candidate Entrance Examination must submit TOEFL, TOEIC, or IELTS score sheet.

#### 4. Specialized Subjects

Course	Fall Entrance Examination / Entrance Examination for October Admission	Spring Entrance Examination
Human and Ecological Systems Environmental Adaptation Science Global Environmental Management	Candidates shall receive 1 Japanese or English written test booklet and 4 answer sheets and answer the test. Two questions will be set in each of the 4 subject areas (total 8 questions) of (1) mathematics and physics, (2) ecology and geography, (3) environment and society, and (4) chemistry and biology. Candidates shall answer 1 question from each subject area. Environmental science is a compulsory subject, and all 3 questions must be answered. 1 answer sheet for 1 question. Reference books are listed on the webpage.	The written examination will not be conducted (Oral Examination will be questioned applicants' specialization through presentations and Q&A).
Practical Science for Environment	Candidates shall receive 1 Japanese written test booklet and 2 answer sheets and use 1 answer sheet for 1 question. Answer a short essay question on environmental science (environmental education, regional problem solving, global warming, energy and recycling, biodiversity etc.). Refer to "Environment, recycling-oriented society, biodiversity white paper" See <a href="http://www.env.go.jp/en/wpaper/">http://www.env.go.jp/en/wpaper/</a>	

#### 5. Oral Examination

Oral Examination is approximately 10 to 20 minutes for interview for Fall Entrance Examination and Entrance Examination for October Admission. The examination place and time will be announced before Foreign Language Examination.

10 minutes for Presentation and 20 minutes of Q&A time for Fall Selected Candidate Entrance Examination. The presentation shall be on the bachelor's thesis or a research theme that applicants wish to follow in this graduate school. The Q&A will be given based on the contents of applicant's presentation and self-recommendation detailing self-evaluation of their abilities in studying. (Submission of self-recommendation in A4 size is required). The examination place and time will be announced in the time of sending certificates for examination.

Oral Examination for Spring Entrance Examination is 15 minutes for presentation and approximately 15 minutes of Q&A Time (3 courses except course in Practical Science for Environment). A presentation consists of the candidates' bachelor's thesis or a research theme that applicants wish to follow in this graduate school. Candidates shall bring a computer and use PowerPoint or similar applications to make their presentation. Working adults and other applicants who have not recently graduated may also give a presentation on their recent activities. Applicants for the Course in Global Environmental Management shall deliver their presentation in English, and outline the international significance of the research. Candidates for the Course in Practical Science for Environment take an interview for 15 to 20 minutes per person. The examination place and time will be announced before Foreign Language Examination

# Division of Earth System Science

## 1. Time Schedule of Examination, Examination information, and others

Examination	Date	Subject	Time	Remarks
Fall Entrance Examination / Entrance Examination for October Admission	Aug. 25 2016	Foreign Language	10:00~12:00	Foreign language shall be "English."
		Specialized Subjects	13:00~16:00	Refer to '2. Specialized Subjects'
	Aug. 26 2016	Oral Examination	Announced later	Time schedule will be informed before the foreign language examination.
Special Entrance Examination	Oct. 24 2016	Basic Academic Skills	9:30~11:00	Refer to '3. Basic Academic Skills'
		Presentation on assigned theme and Oral Examination	Announced later	Refer to '4. Presentation and Oral Examination on assigned theme'
Spring Entrance Examination	Feb. 28 2017	Foreign Language	10:00~12:00	Foreign language shall be "English."
		Specialized Subjects	13:00~16:00	Refer to '2. Specialized Subjects'
	Mar. 1 2017	Oral Examination	Announced later	Time schedule will be informed before the foreign language examination.

## 2. Specialized Subjects

Course	Fall Entrance Examination / Entrance Examination for October Admission	Spring Entrance Examination
Geochemistry	Methods for specialized subjects (a) and (b) are listed below. Select either (a) or (b).	
	a	Short essay (reasons for application, research goals etc.) and the following specialized subject examinations. Short essay shall be submitted within the first 60 minutes of the special subject examination.  Specialized subjects: Examination contains each 2 questions among chemistry, biology, and earth science. Candidates choose and answer 2 questions among these 6 questions.
	b	Candidates shall contact the course faculty by 2 weeks before the application deadline, and shall submit an essay of approximately 1,600 words on assigned theme together with the application documents.
Atmosphere-Ocean and Climate Dynamics	Compulsory questions: Candidates shall answer all short questions on basic <b>mathematics</b> and <b>physics</b> .  Optional questions: Optional questions consist of 7 questions, 2 <b>mathematics</b> questions, 2 <b>physics</b> questions, and 3 <b>geophysics (meteorology, physical oceanography)</b> questions. Candidates shall choose and answer 2 questions among the 7 questions.	4 questions among mathematics and physics (classical physics) are compulsory. Candidates shall answer all 4 questions. Approximately half of the questions cover fundamental knowledge.

Cryosphere Science	Examination method is a).		Candidates shall choose method a) or b) below.
	a	a) Candidates shall choose and answer 2 questions among the following 5 subjects: <b>physics, chemistry, meteorology, hydrology, and quaternary research</b> . However, candidates shall decide the subjects before application, and write their selection on the corresponded section of the application form (2).	
	b	There's no method (b) selection	b) Candidates shall contact the course faculty by 2 weeks before the application deadline, and shall submit an essay of approximately 1,600 words on assigned theme together with the application documents.

### 3. Academic Basic Skills Examination

Course	Examination
Geochemistry	Written Examination of English. The applicants for the course in Cryosphere Science may use English-Japanese book dictionary.
Cryosphere Science	
Atmosphere-Ocean and Climate Dynamics	Written Examination which covers fundamental knowledge in mathematics and physics (classical physics).

### 4. Presentation Examination on assigned theme'

Oral presentation and Q & A (approximately 30 minutes in total) will be delivered. Submission of short essay about a topic/topics which is given and reasons for applying is required. In addition to presentation quality, attitude and effort to make them understood is also evaluated in this presentation examination.

(1) Contact Period: Be sure to contact by application after September 5th of 2016 and receive instruction about required documents and Presentation Examination.

Contact: [ess\\_info@wwwgeo.ees.hokudai.ac.jp](mailto:ess_info@wwwgeo.ees.hokudai.ac.jp)

The contact email address stated above is available to use for inquiry for the examination and also to contact for your laboratory visit. However, the dates for applicants visit to laboratory will end on the last day of application period.

(2) Be sure to bring document which is written about motivation to apply and topics which is given by each course on the day of the examination and submit it at the starting time of the basic academic skills examination.

(i) Motivation to apply: Write about motivation to apply and research goals including self-promotion.

(ii) Topics by each division: Details will be instructed in the timing of advanced notice. Please refer to each course's webpage. The examples and guideline is available on the webpages.

Course in Geochemistry <http://geos.ees.hokudai.ac.jp/hag/en/index.html>

Course in atmosphere-ocean and climate dynamics [http://wwwwoa.ees.hokudai.ac.jp/index\\_e.html](http://wwwwoa.ees.hokudai.ac.jp/index_e.html)

Course in Cryosphere Science <https://sites.google.com/site/courseincryosphereen/home>

(3) Available devices for presentation: A PC and a projector capable of displaying PowerPoint and PDF files, and a whiteboard will be prepared in an examination room for presentation. Applicants may bring USB memory device with contents for presentation. If being not familiar with PC, they utilize whiteboard to write and a prepared poster to present.

# Division of Biosphere Science

## 1. Time Schedule of Examination, Examination information, and others

Special Selected Candidate Entrance Examination (students currently enrolled in an advanced course in a technical junior college)

Date	Subject	Time	Remarks
May. 30 2016	Foreign Language	—	Language skill will be judged by the score of TOEFL, TOEIC or IELTS. Applicants must submit one of 3 score sheets with applications.
	Oral Examination	Announced later	This examination includes Q&A about applicants' submitted self-recommendations. A list of time and places will be distributed before the foreign language examination.

## Fall Entrance Examination / Entrance Examination for October Admission

Date	Subject	Time	Remarks												
Aug. 25 2016	Foreign Language	10:00~ 12:00	Foreign language shall be "English."												
	Specialized Subjects	13:00~ 15:00	Candidates shall choose and answer three questions among twelve questions in total from 3 subjects. The three questions can be selected from any subject.												
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Subjects</th> <th>Reference books</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Subjects on Field Science (4 questions)</td> <td>Questions are based on ecology, agri-culture and forestry. <i>"Raven/Johnson Biology", "Introduction to Ecology" (in Japanese)</i></td> </tr> <tr> <td style="text-align: center;">2</td> <td>Subjects on Life Science (4 questions)</td> <td>Questions are based on molecular biology, biochemistry, cell biology and cell physiology. <i>"Raven/Johnson Biology", "Molecular Biology of the Cell"</i></td> </tr> <tr> <td style="text-align: center;">3</td> <td>Subjects on Aquatic and Marine Science</td> <td>Questions are based on Aquatic Biology, Oceanography, and Fishery Science. <i>"A Handbook on Fisheries Science - Revised Edition" (in Japanese), "Invitation to Oceanography: Paul R. Pinet"</i></td> </tr> </tbody> </table>	Subjects		Reference books	1	Subjects on Field Science (4 questions)	Questions are based on ecology, agri-culture and forestry. <i>"Raven/Johnson Biology", "Introduction to Ecology" (in Japanese)</i>	2	Subjects on Life Science (4 questions)	Questions are based on molecular biology, biochemistry, cell biology and cell physiology. <i>"Raven/Johnson Biology", "Molecular Biology of the Cell"</i>	3	Subjects on Aquatic and Marine Science	Questions are based on Aquatic Biology, Oceanography, and Fishery Science. <i>"A Handbook on Fisheries Science - Revised Edition" (in Japanese), "Invitation to Oceanography: Paul R. Pinet"</i>
			Subjects		Reference books										
1	Subjects on Field Science (4 questions)	Questions are based on ecology, agri-culture and forestry. <i>"Raven/Johnson Biology", "Introduction to Ecology" (in Japanese)</i>													
2	Subjects on Life Science (4 questions)	Questions are based on molecular biology, biochemistry, cell biology and cell physiology. <i>"Raven/Johnson Biology", "Molecular Biology of the Cell"</i>													
3	Subjects on Aquatic and Marine Science	Questions are based on Aquatic Biology, Oceanography, and Fishery Science. <i>"A Handbook on Fisheries Science - Revised Edition" (in Japanese), "Invitation to Oceanography: Paul R. Pinet"</i>													
Aug. 26 2016	Oral Examination	Announced later	Time schedule will be informed before the foreign language examination.												

## Fall Special Entrance Examination

Date	Subject	Time	Remarks
Oct. 24 2016	Foreign language	—	Language skill will be judged by the score of TOEFL, TOEIC or IELTS. Applicants must submit one of 3 score sheets with applications.
	Specialized Subjects	9:30~ 11:00	General topics on environment and biology will be questioned in essay format.
	Oral Examination	Announced later	A list of time and places will be distributed before the specialized subjects examination.



### Spring Entrance Examination

Date	Subject	Time	Remarks
Feb.28 2017	Foreign Language Subjects	10:00~ 12:00	Foreign language shall be "English."
Mar. 1 2017	Oral Examination (Including Specialized Subjects)	Announced later	<ul style="list-style-type: none"> <li>•Specialized subjects examination is delivered as a part of the oral examination. No written examinations are conducted for specialized subjects.</li> <li>•Candidates shall present their bachelor's thesis or research plan. The oral examination including Q&amp;A on the specialized subjects will be conducted based on the presentation. Presentation time is 15 minutes.</li> <li>•A liquid crystal projector and a PC (Windows) will be prepared for presentations. Applicants may bring USB memory device for electric files.</li> <li>•A list of time and places will be distributed before the specialized subjects examination.</li> </ul>

#### 2. Advance contact of expected supervisors

Before applying, students must inquire by the following methods below to confirm the availability of their preferred course or supervisor.

- 1) If you have decided which course and supervisor you want to be considered for admission, contact the course supervisor directly by email referring the list of expected supervisors in this guidebook (see page17-18). If you have a preferable supervisor as your second choice, you should contact both the first and second preferable supervisors you are wishing to study.
- 2) If you have not decided which course you want to be considered for admission, you should contact the chief of the division you wish to be considered for admission (envsci@ees.hokudai.ac.jp).

# Division of Environmental Materials Science

## 1. Time Schedule of Examination, Examination information, and others

Examination	Date	Subject	Time	Remarks
Special Selected Candidate Entrance Examination <small>(students currently enrolled in an advanced course in a technical junior college)</small>	May 30 2016	Oral Examination	Time schedule will be enclosed with the admission examination card when it's sent.	The oral examination is presentation and Q&A based on the submitted self-recommendation.
Fall Entrance Examination and Entrance Examination for October Admission	Aug. 25 2016	Foreign Language	10:00~12:00	Refer to '2. Foreign Language'
		Specialized subjects	13:00~16:00	Basic chemistry selection Answer all questions in general chemistry (2 in physical chemistry and 2 in organic chemistry).
	Aug. 26 2016	Oral Examination	Time schedule will be informed before the foreign language examination.	Basic chemistry selection: Interview Self-recommendation selection : Presentation and Q&A based on the submitted self-recommendation.
Fall selected Candidate Entrance Examination <small>(Students currently enrolled in a domestic four-year college)</small>	Oct. 24 2016	Oral Examination	Time schedule will be enclosed with the admission examination card when it's sent.	Presentation and Q&A based on the submitted self-recommendation.
Spring Entrance Examination	Feb. 28 2017	Foreign Language	10:00~12:00	Refer to '2. Foreign Language'
		Specialized subjects	13:00~16:00	Basic chemistry selection Answer all questions in general chemistry (2 in physical chemistry and 2 in organic chemistry).
	Mar.1 2017	Oral Examination	Time schedule will be informed before the foreign language examination.	Basic chemistry selection: Interview Self-recommendation selection : Presentation and Q&A based on the submitted self-recommendation.

## 2. Foreign Language

- Foreign language shall be "English."
- Applicants, who took TOEFL, TOEIC or IELTS within 2 years preceding from the date of the English Examination of entrance examination, should submit the score sheet (It might also be considered for the admission decision). However, the applicants must take the foreign language test.

## 3. Fall Entrance Examination, Entrance Examination for October Admission, and Spring Entrance Examination

- Choose (1) Basic Chemistry Selection and/or (2) Self-recommendation Selection at the time of application for admission.
- The basic chemistry selection uses a written examination to judge the candidate's ability in the specialized subjects that form the basis of education and research in this division. An interview is held instead of an oral examination. However, in the self-recommendation selection, as the research abilities and ability and aptitude to think through a broad range of topics cannot be accurately judged using a written test, candidates are judged solely on an oral examination.
- Foreign applicants are required to contact an expected supervisor in advance.

#### 4. Oral Examinations

- **Fall Entrance Examination**
- **Entrance Examination for October Admission**
- **Spring Entrance Examination (Self-recommendation selection)**
- **Special Selected Candidate Entrance Examination**
- **Fall Selected Candidate Entrance Examination**

The Oral Examination will be presentation and oral examination based on the submitted self-recommendation. 7 minutes for the presentation, 8 minutes of Q&A time.

The oral examination will also cover fundamental knowledge and motivation.

A liquid crystal projector and computer will be available for the presentation.

Therefore, applicants should bring presentation files on a USB flash memory drive.

- **Fall Entrance Examination**
- **Entrance Examination for October Admission**
- **Spring Entrance Examination (Basic Chemistry Selection)**

Interview will be held.

#### 5. Expected supervisors to fill in the application forms

- 1) If you have decided which course and supervisor you wish to apply to:

Write a group and a course to which an expected supervisor belongs you wish to apply in the application form. Refer to the list below.

- 2) If you have not decided which course and supervisor to apply to:

Contact the chief of the division ([sfmc@ees.hokudai.ac.jp](mailto:sfmc@ees.hokudai.ac.jp))

It depends on supervisors to accept students in specific entrance examination. Before applying, students must inquire to the division or supervisors they wish to apply to confirm the availability of their preferred course or supervisor. Refer to page 18.

#### 6. List of Expected Supervisors

Course	Research Group	Professor
Biomaterials Chemistry	SAKAIRI Group	Prof. SAKAIRI *Asst. Prof. YAMADA
	MATSUDA Group	Prof. MATSUDA Asst. Prof. UMEZAWA Assistant. Prof. MOROZUMI
	TANAKA Group	Prof. TANAKA (concurrent post)
	OKINO Group	Asst. Prof. OKINO (concurrent post)
Nano-Materials Environmental	KONISHI Group	Prof. KONISHI Asst. Prof. SHICHIBU Assistant. Prof. NAKATA
	YAGI Group	Prof. YAGI Asst. Prof. KAWAGUCHI Assistant. Prof. KATO
	KAMIYA Group	Prof. KAMIYA Assistant. Prof. OTOMO
	HIROKAWA Group	Asst. Prof. HIROKAWA
	TOYODA Group	Asst. Prof. TOYODA (concurrent post)
Molecular Photonics and Electronics Science	NAKAMURA. T. Group	Prof. NAKAMURA. T Asst. Prof. NORO Assistant. Prof. KUBO
	BIJU Group	Prof. BIJU
Environmental Catalytic Chemistry	OHTANI Group	Prof. OHTANI Prof. YE Asst. Prof. KOWALSKA Assistant. Prof. TAKASHIMA

\*Professors may change groups which they belong. Confirm a group which you wish to apply to with your preferable supervisor before applying.

\*Asst. = Associate

**Academic Staff in Graduate School of Environmental Science, Hokkaido University**  
**Master's Course**

As of April 1, 2016

Division of Environmental Science Development

Courses	Title	Faculty	Contact email
Human and Ecological Systems	Professor	TAKADA Takenori	takada@ees.hokudai.ac.jp
	Professor	TSUYUZAKI Shiro	tsuyu@ees.hokudai.ac.jp
	Professor	WATANABE Teiji	twata@ees.hokudai.ac.jp
	Professor	HARA Toshihiko	t-hara@pop.lowtem.hokudai.ac.jp
	Professor	ARAKI Hajime	araki@fsc.hokudai.ac.jp
	Associate Professor	FUJII Masahiko	mfujii@ees.hokudai.ac.jp
	Associate Professor	ISHIKAWA Mamoru	mishi@ees.hokudai.ac.jp
	Associate Professor	SHIRAIWA Takayuki	shiraiwa@lowtem.hokudai.ac.jp
	Associate Professor	TOYODA Kazuhiro	kazuhiro@ees.hokudai.ac.jp
	Associate Professor	SATO Tomonori	t_sato@ees.hokudai.ac.jp
	Associate Professor	NEGISHI Junjiro	negishi@ees.hokudai.ac.jp
Environmental Adaptation Science	Professor	TANAKA Shunitz	shunitz@ees.hokudai.ac.jp
	Associate Professor	TOYODA Kazuhiro	kazuhiro@ees.hokudai.ac.jp
	Associate Professor	OKINO Tatsufumi	okino@ees.hokudai.ac.jp
	Associate Professor	KURASAKI Masaaki	kura@ees.hokudai.ac.jp
Practical Science for Environment	Professor	YAMANAKA Yasuhiro	galapen@ees.hokudai.ac.jp
	Professor	WATANABE Teiji	twata@ees.hokudai.ac.jp
	Associate Professor	SHIRAIWA Takayuki	shiraiwa@lowtem.hokudai.ac.jp
	Associate Professor	NEGISHI Junjiro	negishi@ees.hokudai.ac.jp
Global Environmental Management	Professor	TANAKA Shunitz	shunitz@ees.hokudai.ac.jp
	Professor	WATANABE Teiji	twata@ees.hokudai.ac.jp
	Professor	Ralf GREVE	greve@lowtem.hokudai.ac.jp
	Associate Professor	TOYODA Kazuhiro	kazuhiro@ees.hokudai.ac.jp
	Associate Professor	ISHIKAWA Mamoru	mishi@ees.hokudai.ac.jp
	Associate Professor	FUJII Masahiko	mfujii@ees.hokudai.ac.jp
	Associate Professor	KURASAKI Masaaki	kura@ees.hokudai.ac.jp

Division of Earth System Science

Courses	Title	Faculty	Contact email
Geochemistry	Professor	YOSHIKAWA Hisayuki	hyoshika@ees.hokudai.ac.jp
	Professor	SUGIMOTO Atsuko	atsukos@ees.hokudai.ac.jp
	Associate Professor	WATANABE Yutaka	yiyiwata@gmail.com
	Associate Professor	YAMAMOTO Masanobu	myama@ees.hokudai.ac.jp
	Associate Professor	SUZUKI Koji	kojis@ees.hokudai.ac.jp
	Associate Professor	NISHIOKA Jun	nishioka@lowtem.hokudai.ac.jp
	Associate Professor	SEKI Osamu	seki@pop.lowtem.hokudai.ac.jp
	Associate Professor	YAMASHITA Yohei	yamashiy@ees.hokudai.ac.jp
	Associate Professor	KAMEYAMA Sohiko	skameyama@ees.hokudai.ac.jp
	Assistant Professor	IRINO Tomohisa	irino@ees.hokudai.ac.jp
	Assistant Professor	MIYAZAKI Yuzo	yuzom@lowtem.hokudai.ac.jp
Atmosphere-Ocean and Climate Dynamics	Professor	KUBOKAWA Atsushi	kubok@ees.hokudai.ac.jp
	Professor	EBUCHI Naoto	ebuchi@lowtem.hokudai.ac.jp
	Professor	HASEBE Fumio	f-hasebe@ees.hokudai.ac.jp
	Professor	MITSUDEIRA Humio	humiom@lowtem.hokudai.ac.jp
	Professor	OHSHIMA Keiichirou	ohshima@lowtem.hokudai.ac.jp
	Professor	WATANABE Tsutomu	t-wata@lowtem.hokudai.ac.jp
	Professor	TANIMOTO Youichi	tanimoto@ees.hokudai.ac.jp
	Associate Professor	FUJIWARA Masatomo	fujii@ees.hokudai.ac.jp
	Associate Professor	AOKI Shigeru	shigeru@lowtem.hokudai.ac.jp
	Associate Professor	HORINOUCHI Takeshi	horinout@ees.hokudai.ac.jp
	Associate Professor	FUKAMACHI Yasushi	yasuf@lowtem.hokudai.ac.jp
	Associate Professor	SATO Tomonori	t_sato@ees.hokudai.ac.jp
	Associate Professor	YOSHIMORI Masakazu	myoshimo@ees.hokudai.ac.jp
	Lecturer	NAKAMURA Tomohiro	nakamura@lowtem.hokudai.ac.jp
	Assistant Professor	MIZUTA Genta	mizuta@ees.hokudai.ac.jp
	Assistant Professor	KAWASHIMA Masayuki	kawasima@lowtem.hokudai.ac.jp
Assistant Professor	TOYOTA Takenobu	toyota@lowtem.hokudai.ac.jp	
Assistant Professor	MATSUMURA Yoshimasa	ymatsu@lowtem.hokudai.ac.jp	

**Academic Staff in Graduate School of Environmental Science, Hokkaido University**  
**Master's Course**

As of April 1, 2016

Cryosphere Science	Professor	WATANABE Tsutomu	t-wata@lowtem.hokudai.ac.jp
	Professor	Ralf GREVE	greve@lowtem.hokudai.ac.jp
	Professor	MITSUDEIRA Humio	humiom@lowtem.hokudai.ac.jp
	Associate Professor	ISHIKAWA Mamoru	mishi@ees.hokudai.ac.jp
	Associate Professor	SHIRAIWA Takayuki	shiraiwa@lowtem.hokudai.ac.jp
	Associate Professor	AOKI Shigeru	shigeru@lowtem.hokudai.ac.jp
	Associate Professor	SUGIYAMA Shin	sugishin@lowtem.hokudai.ac.jp
	Assistant Professor	ISHII Yoshiyuki	ishii@pop.lowtem.hokudai.ac.jp
	Assistant Professor	SONE Toshio	tsone@pop.lowtem.hokudai.ac.jp
	Assistant Professor	MATOKA Sumito	matoka@pop.lowtem.hokudai.ac.jp
	Assistant Professor	SHIMOYAMA Kou	k-shimo@lowtem.hokudai.ac.jp
	Assistant Professor	IIZUKA Yoshinori	iizuka@lowtem.hokudai.ac.jp
	Assistant Professor	KAWASHIMA Masayuki	kawasima@lowtem.hokudai.ac.jp
	Assistant Professor	TOYOTA Takenobu	toyota@lowtem.hokudai.ac.jp

Division of Biosphere Science

Courses	Title	Faculty	Contact email
Ecosystem Biology	Professor	HARA Toshihiko	t-hara@pop.lowtem.hokudai.ac.jp
	Professor	FUKUI Manabu	my-fukai@pop.lowtem.hokudai.ac.jp
	Associate Professor	SUMIDA Akihiro	asumida@lowtem.hokudai.ac.jp
	Associate Professor	KASAHARA Yasuhiro	y-kasaha@lowtem.hokudai.ac.jp
	Associate Professor	OCHIAI Masanori	ochiai@lowtem.hokudai.ac.jp
	Assistant Professor	OHDACHI Satoshi	ohd@pop.lowtem.hokudai.ac.jp
	Assistant Professor	ONO Kiyomi	kiyomion@pop.lowtem.hokudai.ac.jp
	Assistant Professor	KOJIMA Hisaya	kojimah@pop.lowtem.hokudai.ac.jp
	Assistant Professor	HASEGAWA Shigeaki	shasegaw@lowtem.hokudai.ac.jp
	Assistant Professor	TERASHIMA Mia	m.terashima@lowtem.hokudai.ac.jp
Ecological Genetics	Professor	OHARA Masashi	ohara@ees.hokudai.ac.jp
	Professor	SUZUKI Hitoshi	htsuzuki@ees.hokudai.ac.jp
	Associate Professor	MIURA Toru	miu@ees.hokudai.ac.jp
Molecular Biology	Professor	MORIKAWA Masaaki	morikawa@ees.hokudai.ac.jp
	Associate Professor	YAMAZAKI Ken-ichi	ymzk@ees.hokudai.ac.jp
	Associate Professor	MIWA Kyoko	miwakyoko@ees.hokudai.ac.jp
	Associate Professor	KURASAKI Masaaki	kura@ees.hokudai.ac.jp
	Assistant Professor	WASHIO Kenji	washi@ees.hokudai.ac.jp
Plant Ecology	Professor	KOHYAMA Takashi	kohyama@ees.hokudai.ac.jp
	Professor	TSUYUZAKI Shiro	tsuyu@ees.hokudai.ac.jp
	Associate Professor	KUDO Gaku	gaku@ees.hokudai.ac.jp
	Assistant Professor	KUBO Takuya	kubo@ees.hokudai.ac.jp
Animal Ecology	Professor	TAKADA Takenori	takada@ees.hokudai.ac.jp
	Associate Professor	NODA Takashi	noda@ees.hokudai.ac.jp
	Associate Professor	KOIZUMI Itsuro	itsuro@ees.hokudai.ac.jp
Marine Biogeochemistry, Physics and Biology	Professor	HIRAISHI Tomonori	hiraishi@fish.hokudai.ac.jp
	Professor	MONTANI Shigeru	montani@fish.hokudai.ac.jp
	Professor	KUDO Isao	ikudo@fish.hokudai.ac.jp
	Lecturer	SHIMIZU Munetaka	mune@fish.hokudai.ac.jp
Aquatic Biology	Professor	MOTOMURA Taizo	motomura@fsc.hokudai.ac.jp
	Professor	YAMAHA Etsuro	eyamaha@fsc.hokudai.ac.jp
	Professor	NAKAOKA Masahiro	nakaoka@fsc.hokudai.ac.jp
	Professor	MIYASHITA Kazushi	miyashi@fish.hokudai.ac.jp
	Associate Professor	MUNEHARA Hiroyuki	hm@fsc.hokudai.ac.jp
	Associate Professor	NAGASATO Chikako	nagasato@fsc.hokudai.ac.jp
	Associate Professor	YOTSUKURA Norishige	yotsukur@fsc.hokudai.ac.jp
	Associate Professor	MITANI Yoko	yo_mitani@fsc.hokudai.ac.jp
	Assistant Professor	DENBOU Takashi	denboh@fsc.hokudai.ac.jp
	Assistant Professor	YAMAMOTO Jun	yamaj@fish.hokudai.ac.jp
	Assistant Professor	ISADA Tomonori	t-isada@fsc.hokudai.ac.jp

**Academic Staff in Graduate School of Environmental Science, Hokkaido University  
Master's Course**

As of April 1, 2016

Forest Conservation	Professor	SATO Fuyuki	f-satoh@fsc.hokudai.ac.jp
	Professor	HIURA Tsutomu	hiura@fsc.hokudai.ac.jp
	Professor	SAITO Takashi	tsaitoh@fsc.hokudai.ac.jp
	Professor	SHIBATA Hideaki	shiba@fsc.hokudai.ac.jp
	Professor	YOSHIDA Toshiya	yoto@fsc.hokudai.ac.jp
	Associate Professor	UEMURA Shigeru	umr@fsc.hokudai.ac.jp
	Associate Professor	KADOMATSU Masahiko	kado@fsc.hokudai.ac.jp
	Associate Professor	CHA Joo Young	jycha@fsc.hokudai.ac.jp
	Associate Professor	AGETSUMA Naoki	agetsuma@fsc.hokudai.ac.jp
	Associate Professor	TAKAGI Kentaro	kentt@fsc.hokudai.ac.jp
	Associate Professor	UTSUMI Shunsuke	utsumi@fsc.hokudai.ac.jp
	Associate Professor	NAKAZI Tatsuro	nakaji@fsc.hokudai.ac.jp
	Associate Professor	KISHIDA Osamu	kishida@fsc.hokudai.ac.jp
	Associate Professor	NAKAMURA Masahiro	masahiro@fsc.hokudai.ac.jp
	Assistant Professor	NOMURA Mutsumi	nomu@fsc.hokudai.ac.jp
	Assistant Professor	FUKUZAWA Karibu	caribu@fsc.hokudai.ac.jp
Assistant Professor	KOBAYASHI Makoto	makoto@fsc.hokudai.ac.jp	
Agro-Ecosystem Science	Professor	ARAKI Hajime	araki@fsc.hokudai.ac.jp
	Professor	YAMADA Toshihiko	yamada@fsc.hokudai.ac.jp
	Associate Professor	HOSHINO Yoichiro	hoshino@exfarm.agr.hokudai.ac.jp
	Associate Professor	KAWAI Masato	m_kawai@fsc.hokudai.ac.jp
	Assistant Professor	HIRATA Toshiyuki	hirata@fsc.hokudai.ac.jp
	Assistant Professor	MITANI Tomohiro	tmitani@fsc.hokudai.ac.jp

**Division of Environmental Materials Science**

Courses	Title	Faculty	Contact email
Biomaterials Chemistry	Professor	SAKAIRI Nobuo	nsaka@ees.hokudai.ac.jp
	Professor	MATSUDA Fuyuhiko	fmatsuda@ees.hokudai.ac.jp
	Professor	TANAKA Shunitz	shunitz@ees.hokudai.ac.jp
	Associate Professor	YAMADA Koji	yamada@ees.hokudai.ac.jp
	Associate Professor	OKINO Tatsufumi	okino@ees.hokudai.ac.jp
	Associate Professor	UMEZAWA Taiki	omezawa@ees.hokudai.ac.jp
	Assistant Professor	MOROZUMI Tatsuya	moro@ees.hokudai.ac.jp
Environmental Nano-Materials	Professor	KONISHI Katsuaki	konishi@ees.hokudai.ac.jp
	Professor	YAGI Ichizo	iyagi@ees.hokudai.ac.jp
	Professor	KAMIYA Yuichi	kamiya@ees.hokudai.ac.jp
	Associate Professor	TOYODA Kazuhiro	kazuhiro@ees.hokudai.ac.jp
	Associate Professor	HIROKAWA Jun	hirokawa@ees.hokudai.ac.jp
	Associate Professor	KAWAGUCHI Toshikazu	t_kawa@ees.hokudai.ac.jp
	Associate Professor	SHICHIBU Yukatsu	shichibu@ees.hokudai.ac.jp
	Assistant Professor	NAKATA Kou	Knakata@ees.hokudai.ac.jp
	Assistant Professor	KATO Masaru	masaru.kato@ees.hokudai.ac.jp
Assistant Professor	OTOMO Ryouichi	otomo@ees.hokudai.ac.jp	
Molecular Photonics and Electronic Science	Professor	NAKAMURA Takayoshi	tnaka@es.hokudai.ac.jp
	Professor	BIJU VANSUDEVAN PILLAI	
	Associate Professor	NORO Shin-ichiro	noroe@es.hokudai.ac.jp
	Assistant Professor	KUBO Kazuya	kkubo@es.hokudai.ac.jp
Environmental Catalytic Chemistry	Professor	OHTANI Bunsho	ohtani@cat.hokudai.ac.jp
	Associate Professor	YE Shen	ye@cat.hokudai.ac.jp
	Associate Professor	KOWALSKA EWA KATARZYNA	kowalska@cat.hokudai.ac.jp
	Assistant Professor	TAKASHIMA Mai	takashima.m@cat.hokudai.ac.jp