



**Hokkaido University**  
**Graduate School of Environmental Science**  
**Graduate School code : 5**

**Web site:** [http://www.ees.hokudai.ac.jp/index.php?easiestml\\_lang=en](http://www.ees.hokudai.ac.jp/index.php?easiestml_lang=en)

1. Graduate School code	5	
2. Maximum number of participan ts	4 Participants per year	
3. Fields of Study	<input checked="" type="checkbox"/> Environmental Science <input checked="" type="checkbox"/> Marine Science <input checked="" type="checkbox"/> Meteorology <input checked="" type="checkbox"/> Natural Disaster/ Disaster Prevention Science <input checked="" type="checkbox"/> Tourism <input type="checkbox"/> Politics <input type="checkbox"/> Economics <input type="checkbox"/> Sociology <input checked="" type="checkbox"/> Education <input type="checkbox"/> Engineering <input type="checkbox"/> Agriculture (incl. Fisheries) <input checked="" type="checkbox"/> Geology <input type="checkbox"/> ICT <input type="checkbox"/> Medical Science <input type="checkbox"/> Others( )	
Sub Fields	Environmental Pollution, Impacts of Global Warming, Global Environmental Changes and Measures, International Environmental Conservation Regime, Environmental Human Resource Development, Sustainable Environmental Management, Local Material-Cycling Systems, Marine Ecosystem Conservation, Environmental conservation, Meteorology and Climatology, Landscape and Community Ecology, Geocryology, Environmental Geography, Geocology, Natural Resources Management, Sustainability Science, Oceanography and Coral Reef Science, Mathematical Biology, Molecular and Evolutional Ecology, Environmental Remediation, Analytical Chemistry, Marine Natural Products, Chemical Ecology, Environmental Medicine, Molecular Biology, Toxicology, Environmental Risk Assessment, Environmental Metrology, Geochemistry, Mineralogy, Radiochemistry	
4. Program and Degree	Program	Global Environmental Management, Human and Ecological Systems, Environmental Adaptation Science
	Degree	Master of Environmental Science
5. Standard time table (Years needed for graduatio n)	2 years for master course. Experience as a research student for half a year before entering the courses is required.	
6. Language of Program	English or Japanese	

7. Desirable English level and Necessary Academic background	Linguistic Ability	TOEFL IBT: 61 TOEFL PBT: 500
	EJU, IELTS, GRE or else	IELTS: 5 TOEIC: 600
8. Prior Inquiry From Applicants (Before Submission of Application Documents)	See the information below (10. Professors and Associated Professors)	
9. Website	<a href="http://www.ees.hokudai.ac.jp/division/kigaku/">http://www.ees.hokudai.ac.jp/division/kigaku/</a>	
10. Professors and Associated Professors	<b>Name</b>	<b>Research Subject, Contact (e-mail), Special message for the Future students</b>
	Associate Prof. Masahiko Fujii	Environmental Science, Oceanography E-mail: mfujii@ees.hokudai.ac.jp Global environmental issues such as global warming and ocean acidification, and local environmental issues such as atmospheric/oceanic/soil pollutions, are intertwined intricately in differing spatio-temporal scales and are manifesting as worldwide global environmental issues. Globalization is making the resolution of these issues even more difficult. In short, an action by a person may affect the lives of people on the other side of the world, and vice versa. Under such circumstances, measures against individual environmental issues would naturally be different as well. Let us maximize the use of our individual specialist knowledge (so please be a specialist rather than a generalist!) while invoking various techniques, and consider what measures (mitigation/adaptation) are necessary in order to work towards the resolution of respective environmental issues with differing spatio-temporal scales, by assessing the current situation, projecting the future and building a consensus.
	Prof. Tatsufumi Okino	Natural Product Chemistry E-mail: okino@ees.hokudai.ac.jp We are interested in natural toxins, especially micro-algal toxins. In addition, we are searching for biologically active compounds from unutilized marine life.
	Prof. Teiji Watanabe	Geoecology and Field Informatics E-mail: twata@ees.hokudai.ac.jp <a href="http://www.teiwatanabe.com/index-e.html">http://www.teiwatanabe.com/index-e.html</a>
	Associate Prof. Kazuhiro Toyoda	Deep-sea sediments, Marine resources, Environmental geochemistry E-mail: kazuhito@ees.hokudai.ac.jp Equally welcome are ambitious youths from Fiji, Kiribati, Micronesia, the Papua New Guinea, the Solomon Islands, Tonga, Tuvalu, Vanuatu, Western

		Samoa and Cooke Islands.
	Associate Prof. Mamoru Ishikawa	Physical geography, Environmental sciences of cold land region, Natural degradation of vulnerable regions E-mail: mishi@ees.hokudai.ac.jp
	Associate Prof. Masaaki Kurasaki	Environmental remediation, environmental toxicology E-mail: kura@ees.hokudai.ac.jp We are always seeking students who are highly motivated in science. If you are interested in salt damage or desalination damage, please contact me
	Prof. Shiro Tsuyuzaki	Plant community ecology, Environmental conservation E-mail: tsuyu@ees.hokudai.ac.jp What you need is the "interest" and "can-do spirit" in the scientific researches! That is all I want to say now. If you are interested in the researches, contact me.
	Associate Prof. Ram Avtar	Monitoring Response of Terrestrial Ecosystem in Changing Climate Using Geospatial Modelling Techniques, Multi-sensor Remote Sensing Techniques to Evaluate Ecosystem Services, Role of Advanced Remote Sensing Techniques for the implementation of REDD+, Modeling the effects of land use change on ground and surface water resources, Monitoring land subsidence using high resolution TerraSAR-X data, Assessment of Forest Resilience under Socio-economic and climate change pressure using geospatial modelling, Contribution of Geospatial information in achieving the Sustainable Development Goals (SDGs) E-mail: ram@ees.hokudai.ac.jp If you are interested to work in this direction, or have your own ideas to develop as a student, I will be glad to hear from you. I hope you will enjoy your association with the Graduate School of Environmental Science, Hokkaido University.
<b>11 Features of University</b>	<p>Hokkaido University is one of the oldest, largest, and most prestigious universities in Japan. Boasting the largest number of faculties of Japan's national universities, we cover almost all areas of the humanities and social and natural sciences and are leader in research activities in Japan and the world.</p> <p>Our alumni include a Nobel laureate, business leaders, research pioneers, artists, and writers. Our graduates benefit from the University's determination to develop curious minds that are ready to embrace challenges and acquire knowledge, reveal new global perspectives and find solutions which change society for the better.</p> <p>We offer a broad-based educational experience, world-class research facilities, and all the attractions of living in the cosmopolitan city of Sapporo.</p> <p>The atmosphere is warm and welcoming, our campuses clean and safe, and we are located in a breath-takingly beautiful setting.</p>	
<b>12 Features of Graduate School</b>	<p>Since its foundation in 1977 as the first graduate school in Japan to specialize in environmental sciences, Graduate School of Environmental Science has provided interdisciplinary education and research opportunities to students from all over the world. The graduate school consists of four divisions. Division of Environmental Science Development is one of the divisions and has four courses. Three out of four courses actively accept international students who cannot communicate in Japanese.</p> <p>Pacific small island states are one of the most vulnerable regions on earth to climate change including sea level rise. Assessment and future projection of effects of climate change, and providing scientific guidelines to mitigate and adapt to the effects are our central research target. On the other hand, Pacific small island states played a great rule for leading the world to adopt</p>	

	the Paris Agreement in United Nations Framework Convention on Climate Change the 21 <sup>st</sup> Session of the Conference of the Parties (UNFCCC-COP21) held in Paris, France in December 2015. Considering such backgrounds and situations, we pay special attention to Pacific small islands states and would very much like to accept students from these states who are going to study together for solving the environmental problems with various spatial and temporal scales.
<b>13 . Features and Curriculum of Program</b>	Most of classes and seminars in Global Environmental Management Course are provided in English, and therefore, students in this course can finish the master or doctoral course only in English.
<b>14 . Academic Schedule</b>	First semester starts in April and ends in September. Second semester starts in October and ends in March.
<b>15. Supporting service to International Students</b>	
<b>International Students Support Center for Consulting or counseling about daily life, campus life, cross-cultur al adjustment etc.</b>	<p>◆Institute for International Collaboration In 2016, Hokkaido University launched the Institute for International Collaboration(IIC) in an organizational restructuring effort designed to further promote internationalization in education and research. The office is now a ‘one-stop shop’ to get information and guidance on a wide range of issues that were previously separate in location and authority. For further information, please visit &lt; <a href="https://www.global.hokudai.ac.jp/international-affairs/institute-for-international-collaboration/">https://www.global.hokudai.ac.jp/international-affairs/institute-for-international-collaboration/</a> &gt;</p> <p>◆Health Care Center The Health Care Center, located in the center of campus serves students primary health care needs. The staff includes physicians, nurses, counselors and administrative staff members. For further information, please visit <a href="https://www.global.hokudai.ac.jp/current-students/health-and-wellness-2/health-care/health-care-center/">https://www.global.hokudai.ac.jp/current-students/health-and-wellness-2/health-care/health-care-center/</a></p> <p>◆Interanational Student Support Desk The Institute for International Collaboration(IIC) provides a support desk with International students who can answer questions. If international students have trouble reading Japanese documents or do not understand procedures at the ward office or just want to know where to go shopping, they can talk to multilingual staff at the Support Desk. For further information, please visit &lt;<a href="https://www.global.hokudai.ac.jp/prospective-students/discover-campus-life/keep-informed/">https://www.global.hokudai.ac.jp/prospective-students/discover-campus-life/keep-informed/</a>&gt;</p> <p>◆IIC Counselling Room The Institute for International Collaboration povides counseling services to international students. To meet the unique needs of international students, counseling sessions deal with wide ranging issues. The IIC counselor will help students make their own decisions to resolve these difficulties. For further information, please visit &lt;<a href="https://www.global.hokudai.ac.jp/current-students/health-and-wellness-2/counselling/">https://www.global.hokudai.ac.jp/current-students/health-and-wellness-2/counselling/</a>&gt;</p>

<b>Provision of Student Dormitory</b>	<p>Hokkaido University has 757 rooms in 7 dormitories in Sapporo, and 30% of international student lives in a dormitory. All new students can live in a dormitory at least six months, so that students do not have to worry about looking for a place to stay upon arrival in Sapporo. All of Hokkaido University's dormitories are located within walking distance from Sapporo Campus, and are fully furnished with internet access.</p> <p>Housing Information</p> <p>◆Guarantor System</p> <p>Generally a guarantor is required when renting a house or apartment in Japan. Hokkaido University can become the guarantor, if international students have difficulties in finding a personal guarantor when applying to rent an apartment.</p> <p>Please refer to the website for details.</p> <p><a href="https://www.global.hokudai.ac.jp/prospective-students/accomodation/renting-privately/">https://www.global.hokudai.ac.jp/prospective-students/accomodation/renting-privately/</a></p>
<b>Japanese Language Education Program for International Students</b>	<p>The International Student Center offers Japanese Language classes in various levels from introductory level for beginner to advanced level aiming for job hunting. Classes are offered at 8 levels: Introductory 1/2/3/4, Intermediate 1/2/3 and Advanced. At Introductory level, there are following classes; Grammar, Kanji &amp; Vocabulary, Oral Skills. At Intermediate level, there are following classes; Comprehension, Interaction, Expression. At Advanced level, there are following classes; Comprehension, Interaction, Expression, and Business Japanese. International students are free to choose the unit of study according to their needs, but class levels will be determined based on the placement test score.</p> <p>Please refer to the website for details.</p>
<b>Cultural Activities</b>	<p>‘Zen Seminar’ is a cross-cultural program, conducted by the Institute for International Collaboration in spring and autumn. In this program, international students and Japanese students from Hokkaido University spend two days together at a temple and hold various group activities, focusing on cross-cultural understanding. In addition, students also take part in Zen meditation and Japanese culture experiences.</p> <p>The Institute for International Collaboration also offers a two-day trip called ‘Holiday in Hidaka’. It aimed at international communication between Japanese and International students of Hokkaido University, in the relaxed and beautiful setting of Hidaka.</p>
<b>Any special attention to Religious Practice</b>	<p>◆Halal foods available at the cafeteria.</p> <p>◆Prayer room in Office of International Affairs.</p>
<b>facilities (Library etc)</b>	<p>◆Libraries</p> <p>Hokkaido University has two main libraries: the Main (Central) Library, and the North Library, as well as departmental libraries. For more information click here (<a href="https://www.global.hokudai.ac.jp/current-students/academic-support/libraries/">https://www.global.hokudai.ac.jp/current-students/academic-support/libraries/</a>) or go directly to the library website (<a href="http://www.lib.hokudai.ac.jp/en/">http://www.lib.hokudai.ac.jp/en/</a>) .</p> <p>For further information, please visit : <a href="http://www.lib.hokudai.ac.jp/en/">http://www.lib.hokudai.ac.jp/en/</a></p> <p>◆Opening of Sports Facilities</p> <p>While the sports facilities are used mainly for curricular and extracurricular activities, they are also open to students and faculty members of the university. For details, please contact the person in charge of extracurricular activities of the Student Support Division (office of the Student Center for Extracurricular Activities).</p> <p>For further information, please visit</p> <p>&lt; <a href="https://www.global.hokudai.ac.jp/current-students/sport-and-recreation-2/">https://www.global.hokudai.ac.jp/current-students/sport-and-recreation-2/</a> &gt;</p>

<p><b>Please state other particular supporting service you are endeavoring, if any.</b></p>	<p>Enhancing classes and seminars provided in English          Providing opportunities of research assistants (for Ph.D. students)          ◆Supporter System          The International Student Supporter System is designed to provide assistance to first-comers to Sapporo to ensure that International Students commence their lives in Hokkaido smoothly.          ◆Career Support          The Career Center provides various job search support including resume critique, mock interviews, career advice, and seminars.          For further information, please visit  <a href="https://www.global.hokudai.ac.jp/current-students/career/">&lt;https://www.global.hokudai.ac.jp/current-students/career/&gt;</a></p>
<p><b>16. Message to Prospective International Students</b></p>	
<p><b>Message from University</b></p>	<p><a href="https://www.global.hokudai.ac.jp/about/presidents-welcome/">https://www.global.hokudai.ac.jp/about/presidents-welcome/</a></p>
<p><b>Voice of International Students</b></p>	<p>Studying as a master's student has given me a great opportunity to gain knowledge and share ideas or opinions of various fields and different cultures. Classes and seminars are carried out in English by the Division of Environmental Science Development cooperatively with three other divisions in the graduate school; and the interdisciplinary focus of the program allows me to judge international environmental problems appropriately. My research focuses on stable isotopes and I really appreciate the precious chance to study here and the help professors and experts from different fields have given me. I plan to put what I learn about maintaining and enhancing the sustainability of the earth's system to use so that I can contribute to solving environmental problems and help people who are suffering from these problems.</p>