



Integrated Science Program

The Integrated Science Program at Hokkaido University provides students with a wide scientific knowledge, and is taught in English to prepare graduates for professional careers on an international scale.



北海道大学
HOKKAIDO UNIVERSITY



Integrated Science Program

Program Details

The Integrated Science Program is a cross-disciplinary science program for international students interested in pursuing a degree in the sciences at the undergraduate and graduate level. The program's strong cross-disciplinary nature aims to give students an excellent broad scientific education across the core scientific disciplines (physics, chemistry, and biology), while allowing them to specialize in their chosen fields in later years in accordance with their own interests. In addition to the English-based scientific content of the program, a multitude of additional liberal arts courses focusing on business, leadership and management skills, and the Japanese language will be available to ensure students receive a rich and fulfilling education while at Hokkaido University.



Courses

Study a wide range of subjects for the initial six months and then find the field you want to focus on from physics, chemistry, and biology.

Physics

Modern Physics

Quantum Mechanics

Astrophysics

Nuclear Physics

Chemistry

Organic Chemistry

Physical Chemistry

Inorganic Chemistry

Analytical Chemistry

Biology

Zoology

Genetics

Cell Biology

Biodiversity

Mathematics

Linear Algebra

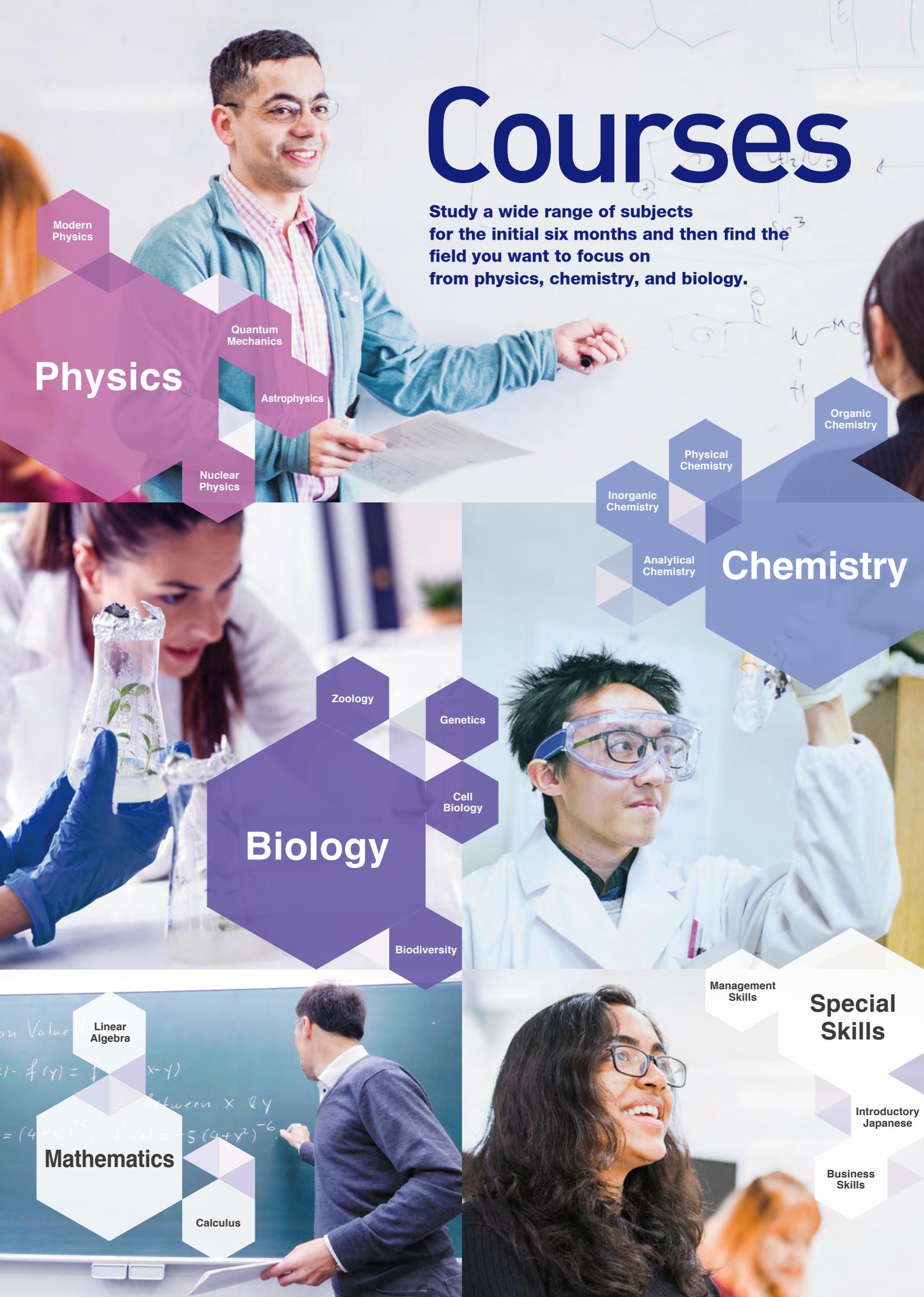
Calculus

Special Skills

Management Skills

Introductory Japanese

Business Skills



Key Characteristics

Study at one of Japan's oldest and most prestigious universities

Courses taught by a diverse international faculty in English

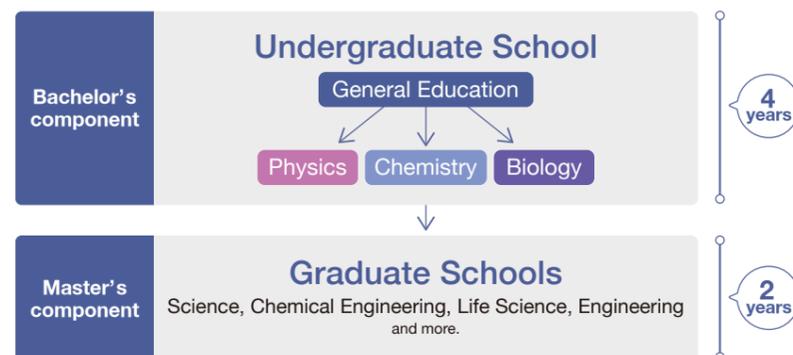
A range of scholarships available

ISP at a Glance

Degrees Offered	Bachelor's Degree (Science) Master's Degree (In your chosen specialized field)
Program Length	4 years + 2 years (Bachelor's) (Master's)

Course Structure

The ISP program consists of a four-year Bachelor's degree and a two-year Master's degree. For the first six months of the Bachelor's component, the students take courses in natural science, liberal arts and Japanese. After that, they will start obtaining more specialized knowledge and practical skills in their chosen fields (physics, chemistry or biology). The Master's degree will include active research components, where students will be affiliated with one of the university's prestigious graduate schools to learn the techniques and skills necessary to flourish as scientists or researchers.



We have an early graduation system that reduces the length of the Bachelor's component to 3.5 years for those who fulfill the requirements.

ISP SCHOLARSHIPS AND FEES

	Degree	Application Fee	Enrollment Fee	Tuition	Scholarship
Fully Supported Students	Bachelor	¥5,000	Waiver	Waiver × 3.5years	¥50,000 / month × 3.5years
	Master	Waiver	Waiver	Waiver × 2years	¥50,000 / month × 2years
Partially Supported Students	Bachelor	¥5,000	Waiver	Waiver × 1year	¥50,000 / month × 1year
	Master	Waiver	Waiver	Waiver × 1year	¥50,000 / month × 1year
Regular Students	Bachelor	¥5,000	Waiver	¥535,800 / year	None
	Master	Waiver	Waiver	¥535,800 / year	None

As of March 2021 | The information above is subject to change. This is applicable to those who enter ISP in October 2021.

Entry Requirements

As of March 2021 | The information is subject to change.

- 12 completed years of education in a foreign country or at an approved international school in Japan OR will hold a high school qualification deemed to be equivalent by the time of entrance.
- Language Ability
Students must satisfy one of the following: being a native English speaker, having received 4 years or more of secondary education (at junior or senior high school, etc.) with English as the primary language of instruction, or holding a score of IELTS (Academic Module) 6.0, TOEFL-iBT 79, TOEFL-PBT 550, TOEIC 730, or higher. Note that proficiency with the Japanese language is not a requirement for admission.
- Those who have Japanese citizenship or Japanese permanent resident status are not eligible to apply.

* Above are the basic qualifications. More detailed information about the requirements can be found in our website.

ADMISSION PROCESS



INTERNATIONAL STUDENT SUPPORT

International Student Support Desk

We provide a support desk staffed with international students. If, for example, you have trouble reading Japanese documents, or do not understand procedures at the ward office, the support desk is happy to help.

Counseling and Guidance

A bilingual counselor offers advice regarding difficulties you may have such as adjusting to life in Japan, academic studies, and career guidance for your future after university. Also, an international ISP faculty member is appointed as the home room teacher for successful applicants to liaise with them prior to arrival.

Accommodation

Rooms in university owned dormitories are offered to ISP students in their freshman year. These include social communal areas, kitchens and washing amenities. Although Sapporo is ranked as one of the most desirable cities in Japan to live in, the cost of living is especially low for a city of its size.

Faculty Members

ISP Coordinator (Physics)



SETO Osamu

A warm welcome to the ISP! We are proud to introduce you to our program that welcomes international students to Sapporo to join our various science programs at Hokkaido University. We hope you will join us and gain some great experiences, as our diverse international faculty guide you on your journey into becoming professional scientists. Students can look forward to interactive lectures and seminars, independent laboratory projects, and even gain experience with computational scientific methods. Despite the copious amounts of snow, Hokkaido University offers a warm and welcoming environment to those from all backgrounds, and we strive to give students a fulfilling and thoroughly enjoyable experience.

Physics



Alexander PETTIT

The physics branch of the ISP strives to provide a wide-ranging understanding of the natural world at its most fundamental level, and to nurture critical thinking and problem-solving skills. After their 6-month introduction period, students undertake a range of courses constituting the main pillars of physics: mechanics, thermal physics, electromagnetism and quantum physics, laying important foundations for future advanced topics such as nuclear theory and astrophysics. Classes operate alongside seminars where students are tutored in applying and honing their skills. Students also partake in laboratory sessions throughout their degree, culminating in a research project with a host group within the physics department that provides students with the experience of working in a professional academic research environment. The physics program also teaches advanced mathematical and computational techniques, vital tools that help make physics graduates some of the most sought-after in professional career environments.

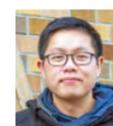
Chemistry



Yu SUN

The ISP has general chemistry courses for the first-year students, opening the first door of the colorful world of chemistry. Common subjects such as Physical Chemistry, Organic Chemistry, Inorganic Chemistry and Analytical Chemistry offer whole spectrum of theories of chemistry from basic concepts to advanced skills. Laboratory Work in Chemistry are designed to reinforce the theories by realizing them in experiments. The department of chemistry also offers elective subjects for the comprehensive study in specific branches of chemistry. Our integrated-skill pedagogy aims for the stepping-up of the future careers in both academia and industry.

Biology



Ooi-kock TEH

In the biological science major, we put emphasis on both theoretical and hands-on training. Students are expected to attend a selection of lectures and experimental courses that broadly expose them to the major areas in biological research. Furthermore, our small class teaching allows one-on-one attention from the instructors and individual progress of the students can be carefully monitored. These courses aim to prepare students for their final year research projects in a laboratory of their choice during which students can pursue their research interest and experimentally apply the knowledge they have acquired in the classroom.

Chemistry



Fernando ARTEAGA



Ruifeng ZHOU

Biology



Kevin WAKEMAN



Nina PATZKE

Mathematics



Borislav YORDANOV

Student Voices

Learn more from current ISP students



**Suphakorn
Suphapolthaworn**
Thailand

Physics

Explore Japanese life while studying science in English.

When I was in high school, I had never imagined myself studying in Japan in the undergraduate level. When I saw the program's brochure, I thought this would be the right choice for me. What I like most about the program is that we can study science in English, while there are Japanese language classes for us as well. In addition, students can participate in extracurricular activities such as clubs, seminars, or international parties which provide us a lot of opportunities not only to learn about Japanese culture but also to live in the society surrounded by international friends.

I am now in the last semester of my undergraduate study, and after this I will proceed to the Graduate School of Science to continue my education in Physics.

Develop marketable skills and step into your science future.

My ambition is to be a scientist and ISP is ideal for me. The program includes general education courses in the first semester and lab experience which are eye-opening to the different areas of science and help to decide our future lab. The program also includes courses in liberal arts and business which equip the students with skills applicable in various fields. I recommend the ISP program to anyone with a passion to accept challenges and to study science under the guidance of international and Japanese faculty.



**Irtaza
Qureshi**
Pakistan

Chemistry



**Radovan
Kostadinov**
North
Macedonia

Biology

Interested in science and Japan? The ISP is for you!

When I was twelve, I became fascinated with nature from the internet, as well as Japanese culture from anime and origami. With these two factors in mind, I chose to study Biology in Hokkaido University's ISP program. It gave me the opportunity to study the natural sciences in English, while immersing myself in Japan's rich culture and its language. After my bachelor's, my goals are to pursue a master's degree at Hokkaido University in Environmental Biology in order to protect our planet from pollution and to become fluent in Japanese. I recommend anyone who has a passion for science and Japanese culture to come and study at ISP.



Integrated Science Program at Hokkaido University

Kita17, Nishi 8, Kita-ku, Sapporo, Hokkaido, 060-0817, JAPAN

Integrated Science Program Office

isp@oia.hokudai.ac.jp +81-(0)11-706-8049

Admission Center (for admission inquiries)

adm-isp@academic.hokudai.ac.jp +81-(0)11-706-8045



Hokkaido University's
Integrated
Science Program



@ISP Hokudai



isp.hokkaido

For more details,
please visit
our website.



<https://www.oia.hokudai.ac.jp/isp/>