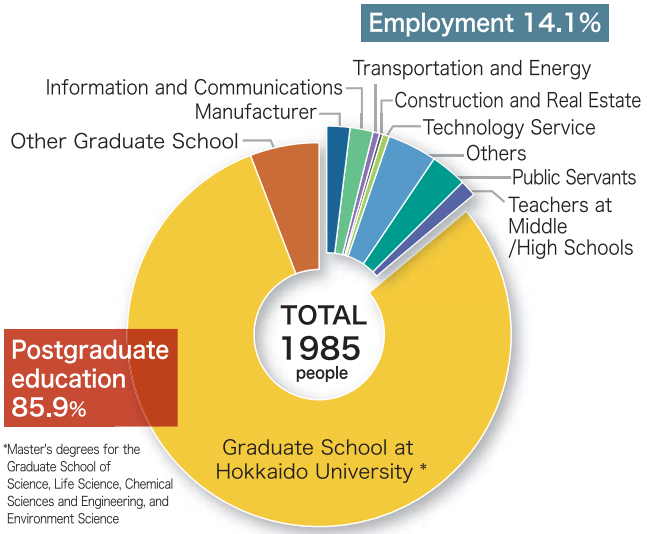
The School of Science consists of five departments: Mathematics, Physics, Chemistry, Biological Sciences (Biology/Macromolecular Functions), and Earth & Planetary Sciences. Each department explores the foremost frontiers of each discipline and produces talented students who are capable of developing new fields of study and making significant contributions to a wide range of areas in society.

The School of Science has produced many prominent human resources in various fields of science such as Dr. Mamoru Mohri, the first Japanese astronaut, and Professor Akira Suzuki, recipient of the 2010 Nobel Prize in Chemistry.

In order to cultivate capable global science talents for the next generation, the School of Science co-hosts the Integrated Science Program (ISP) with the Institute for International Collaboration. International students interested in pursuing a degree in physics, chemistry and biology at Hokkaido University may join this innovative program. English is the medium of instruction in this program.

Young and talented students and researchers at Hokkaido University are continually advancing the frontiers of science, using some of the world's most advanced equipment and facilities. We warmly welcome enthusiastic and inquisitive students to come join us on this exciting endeavor.

After Graduating the School of Science
【FY2008 - 2014】



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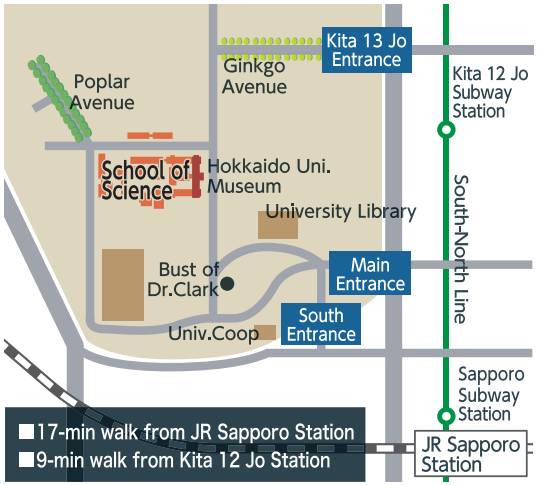

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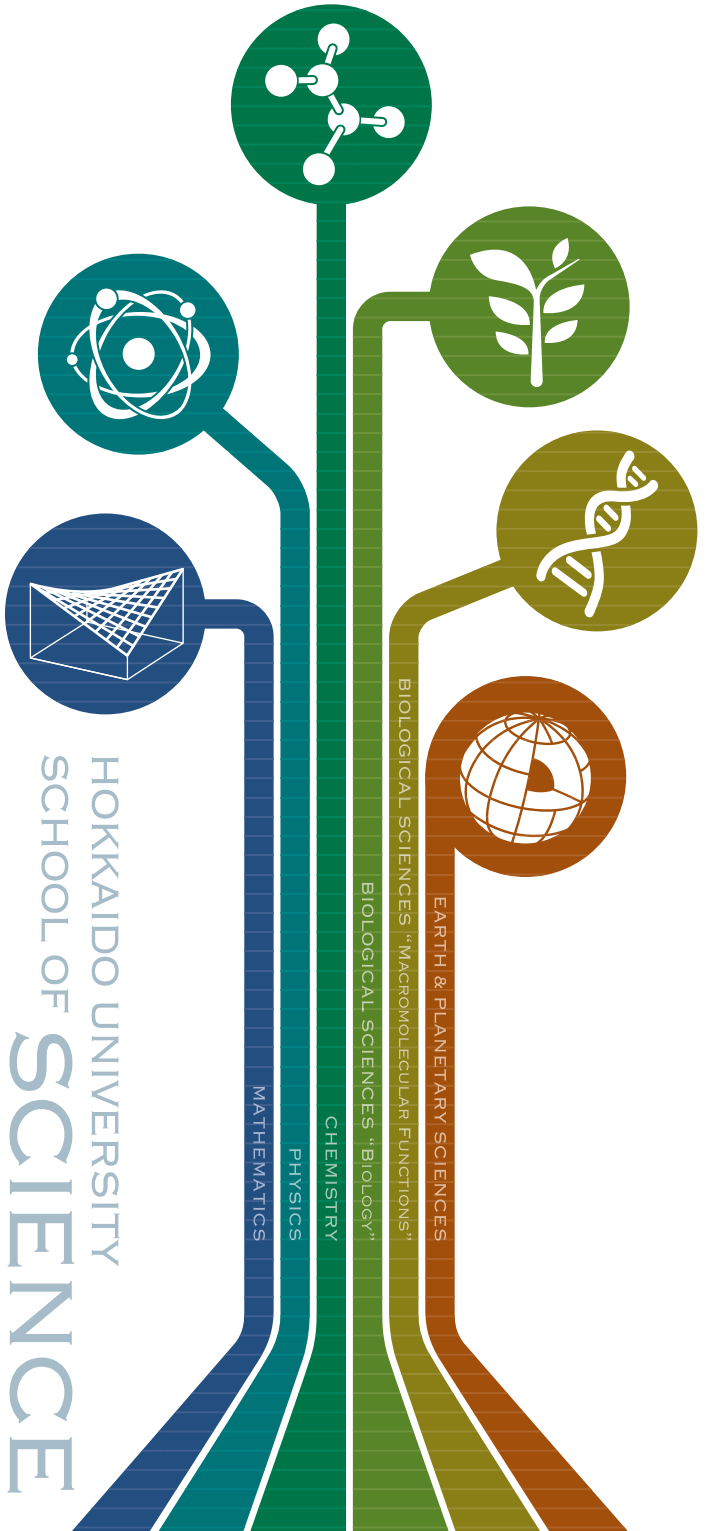
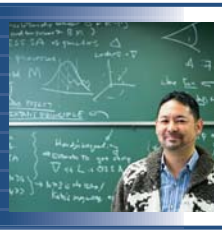


MATHEMATICS

Formulating structures of the universe, and spreading the universal truth to the various fields



All roads lead to Mathematics

Mathematics is a foundation of science and it can be applied to the problems currently unsolvable. By studying mathematics, students can develop their abstract thinking and accurate logic abilities, which are necessary not only for cutting-edge research but also in all aspects of everyday life.

The departmental library stocks a vast amount of mathematical literature ranging from precious vintage books to the latest academic journals. Your research findings will be published as a new page of a book and will become a part of human heritage.

http://www.math.sci.hokudai.ac.jp/

PHYSICS

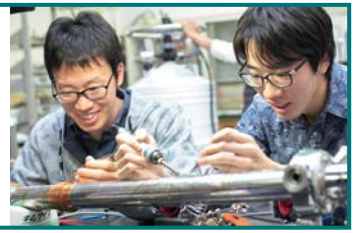
Understanding universal laws and principles of natural phenomenon

New discoveries lead to an unknown, exciting world

Studying physics provides humanity with a deep insight and understanding of the natural phenomena of our universe. Students in our department are taught all the essential skills needed from all physicists, from strong experimental methodology to an understanding of abstract theories. We aim to foster graduates that will play a central role in the development of science and technology in the future.

Experiments are an essential part of a physicist's work, enabling exciting discovers of natural phenomena and proof of exotic theories. The specialized nature of this cutting-edge research requires such unique experimental equipment be built on-site.

http://phys.sci.hokudai.ac.jp/jp/



CHEMISTRY

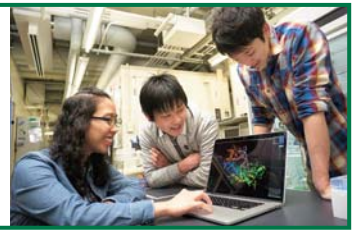
Understanding materials, life, and all related phenomena at the molecular level

Unravel, understand, control, construct, and create

The 21st century is the era of chemistry. Innovative chemistry is required to solve environmental and energy issues. Students who learn the basics of chemistry and then deepen their understanding by conducting experiments with advanced analytical equipment will be well-suited to respond to society's demands.

Understanding "Life" at the molecular level, creating new materials, constructing new concepts with a combination of theories and experiments, and solving issues of environment and energy are all based on "the power of chemistry."

http://wwwchem.sci.hokudai.ac.jp/



BIOLOGICAL SCIENCES
"BIOLOGY"

Exploring basic principles of life forms and paving the way to solving various societal issues

Diverse living matter stirs your mind

Biology is a discipline that studies all living things. The department makes concerted efforts to educate students with up-to-date knowledge and provide hands-on experiences in the pristine nature of Hokkaido. Our curriculum enables students to learn the universality of nature, develop problem solving skills, and think globally.

The Division of Biology conducts research on a wide range of fields ranging from molecular biology to ecology. Research targets vary from animals and plants to protists and bacteria.

http://www.sci.hokudai.ac.jp/bio/

BIOLOGICAL SCIENCES
"MACROMOLECULAR FUNCTIONS"

Solving the mystery of life through comprehensive knowledge of physics, chemistry, biology, and mathematics

Know, support, and mimic "LIFE"

The Division of Macromolecular Functions enables students to understand a system of life on earth, mimic its character, and conduct research that can contribute to society. Students research transdisciplinary field of science and challenge to be human resources that have both research capabilities and broad vision.

The research in the division covers all levels of "life" including biological macromolecules (proteins, nucleic acids, polysaccharides), active cell tissues, and polymer gels. Our research focuses on uncovering the secret of life by utilizing advanced analytical equipment.

http://altair.sci.hokudai.ac.jp/polymer/

EARTH &PLANETARY SCIENCES

Approaching the mystery of the earth and other planets to solve societal issues

Romantic science adventure

The research in our department targets natural phenomena in various temporal and spatial scales, from the birth of the Solar System approximately 4.6 billion years ago to the real-time movement of an atom. Researching how the Earth and other planets operate also meets the real world demands , e.g., disaster prevention and weather forecasts.

Nature does not reveal its secrets easily. The department challenges the unknown world by developing a new method utilizing physical, chemical and biological methods.

http://www.sci.hokudai.ac.jp/eps/