Join HKUST, a top University in Asia, where academicians gather, educators inspire, creative minds thrive and young leaders bloom. You will grow in this vibrant and exciting community and you will fly high when you leave.

**School of Science**

The School of Science is committed to pursuing cutting-edge research, making ground-breaking discoveries and establishing new research paradigms. Our quality and well-balanced education places particular emphasis on grit, curiosity and creativity. We are dedicated to equipping our students with the knowledge and confidence to be inspirational leaders who are capable of making a difference to society.

High quality education requires dedicated educators. The School of Science has recruited outstanding faculty members, many of whom have graduated from top-notch universities around the world such as Cambridge, Columbia, Cornell, Harvard, MIT, Oxford, Princeton, UC Berkeley, UCLA and U Penn. They are world-renowned in their research fields and have attained international stature in recognition for their scientific contributions. With strong commitment to both teaching and research, they instill in our students the importance of scientific rigor and ethics, and at the same time, serve as mentors to inspire and encourage our students to achieve their full potential.

**Groundbreaking Research**

- Research discoveries in neuroscience, organic chemistry, organic solar cells, food safety testing, aggregation-induced emission (AIE), light-emitting materials, nanotechnology, acoustic/elastic metamaterials, protein structure and function, molecular basis of brain diseases and genome-mining based bioactive compound discovery, etc.
- Exploration into contemporary research areas in science: Particle Theory and Cosmology, Super-resolution Imaging in Biophysics, Computational Science, Representation Theory etc.

**World-class Research Facilities**

- State Key Laboratory of Molecular Neuroscience
- Hong Kong Branch of Chinese National Engineering Research Center for Tissue Restoration and Reconstruction
- Biotechnology Research Institute
- William Mong Institute of Nano Science and Technology
- Joint KAUST-HKUST Micro/Nanofluidics Laboratory
- GSK R&D China-HKUST Neuroscience Laboratory
- Sino-German Nano-Analytical Laboratory
- Coastal Marine Laboratory
- Center for Cancer Research
- Center for Chinese Medicine R&D
- Center for Fundamental Physics
- Center for Metamaterials Research
- Center for Quantum Materials
- Center for Scientific Computation
- Center for Space Science Research
- Center for Statistical Science
- Center for Stem Cell Research
- Center for Systems Biology and Human Health
- Molecular Neuroscience Center
- SSCI-IAS Super-resolution Imaging Center
Program Structure

Our 4-year curriculum enables students to have a broader knowledge base and more flexibility in their studies. Students admitted to the School of Science can opt to declare their major in any program in the School of Science, as well as the Joint School and Interdisciplinary Programs.

Our aim is to provide a diverse learning experience for students. Lectures, laboratory courses, Capstone projects and language courses tailor-made for science students are integrated into the 4-year curriculum to ensure that students have a solid foundation and adequate exposure to a range of science disciplines.

Our 4-year curriculum enables students to have a broader knowledge base and more flexibility in their studies. Students admitted to the School of Science can opt to declare their major in any program in the School of Science, as well as the Joint School and Interdisciplinary Programs.

Along with the desired study path, students will have ample opportunities to enjoy a slew of co-curricular programs and enrichment activities aimed at widening exposure and fostering personal development.

Minimum credit requirement for graduation:

4-120-4

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will enroll in science foundation courses according to their interests and background, as well as courses in other areas to fulfill the University Common Core requirement.</td>
<td>Students will declare a major program in their second year. They may also consider declaring a minor program in order to add a secondary area of focus to their studies.</td>
</tr>
</tbody>
</table>

Normative period of study:

4 Years

4-Year Curriculum:

- University Common Core Requirements: 30%
- Major Requirements: 33%
- Free Elective Courses: 24%
- School Requirements: 13%

Minimum credit requirement for graduation:

Total credits required: 36 credits

Graduation Requirement:

- LIFS
- MATH
- ENVS
- CHEM
- PHYS
- MA TH

School-Sponsored Courses (SSC) intended to be offered in courses of the offering School and to represent the uniqueness and value of the School.
International Research Enrichment (IRE) Program

The IRE program is an independent and separate program choice. It is a pioneer study track tailor-made for students with particular interest in pursuing a research career in Science or broadening their exposure to research during their undergraduate studies. It emphasizes curiosity and grit, which are essential attributes to a successful career in scientific research. As an “Elite Program”, it offers outstanding science students an early opportunity to nurture their research abilities and solidify their discipline-specific knowledge in regular Science programs.

IRE students will enjoy:

- Free choice among six major programs: Biochemistry and Cell Biology, Biotechnology, Chemistry, Environmental Science, Mathematics, and Physics;
- Opportunities to participate in advanced research projects under the supervision of world-class professors;
- Opportunities to meet with Nobel Laureates and renowned scientists from around the world through involvement in the activities of the Institute for Advanced Study at HKUST;
- Exchange opportunity in a renowned foreign university including University of California, Berkeley; Columbia University; Northwestern University; ETH Zurich, Switzerland; University of British Columbia, etc.;
- Summer research internship opportunity in foreign universities/national laboratories such as: Cambridge; Chicago; Johns Hopkins; CERN (European Organization for Nuclear Research), Switzerland; CNRS (French National Center for Scientific Research), France, etc.;
- Scholarship support for overseas learning trips.
MAJORS AND MINORS

Science School Programs

- BSc in Biochemistry and Cell Biology (BCB)
- BSc in Biological Science (BISC)
- BSc in Biotechnology (BIOT)
- BSc in Biotechnology and Business (BIBU)
- BSc in Chemistry (CHEM)
  - Biomolecular Chemistry Option
  - Environmental and Analytical Chemistry Option
  - Materials Chemistry Option
  - Pure Chemistry Option
- BSc in Environmental Science (ENVS)
- BSc in Mathematics (MATH)
  - Applied Mathematics Track
  - Computer Science Track
  - General Mathematics Track
  - Mathematics and Physics Track
  - Pure Mathematics Track
  - Pure Mathematics (Advanced) Track
  - Statistics and Financial Mathematics Track
- BSc in Mathematics and Economics (MAEC)
- BSc in Physics (PHYS)
  - Applied Physics Option
  - Physics and Mathematics Option
  - Honors Physics Option

Offered By

- Actuarial Mathematics
- Astrophysics and Cosmology
- Biological Physics
- Biological Science
- Biotechnology
- Chemistry
- Environmental Science
- Mathematics
- Physics

School of Science

- BSc in Biochemistry and Cell Biology (BCB)
- BSc in Biological Science (BISC)
- BSc in Biotechnology (BIOT)
- BSc in Biotechnology and Business (BIBU)
- BSc in Chemistry (CHEM)
- BSc in Environmental Science (ENVS)
- BSc in Mathematics (MATH)
- BSc in Mathematics and Economics (MAEC)
- BSc in Physics (PHYS)

School of Engineering

- Aeronautical Engineering
- Big Data Technology
- Biotechnology
- Bioengineering
- Design
- Environmental Sustainability and Management
- Information Technology
- Robotics
- Sustainable Energy Engineering
- Technology Management

School of Business and Management

- Business

School of Humanities and Social Science

- China Studies
- Humanities
- Social Science

School of Science, School of Engineering, and School of Business and Management

Entrepreneurship

Minor Programs

Students can enjoy additional learning experiences by enrolling in various minor programs offered by different Schools.

BSc in Biotechnology and Business (BIBU)

BSc in Mathematics and Economics (MAEC)

Interdisciplinary Programs

- BSc in Environmental Management and Technology (EVMT)
- BSc in Individualized Interdisciplinary Major (IIM)
- BSc in Risk Management and Business Intelligence (RMBI)
- Dual Degree Program in Technology and Management (BEng/BSc & BBA)

Joint School Programs

School of Science & School of Business and Management

- BSc in Biotechnology and Business (BIBU)
- BSc in Mathematics and Economics (MAEC)

*Availability of the above minor programs is subject to change.*
BSc in BIOCHEMISTRY & CELL BIOLOGY (BCB)

Students will study how biomolecules, which are the fundamental building blocks of all living organisms, work harmoniously in cell-free experimental systems (Biochemistry) and also within cells (Cell Biology). The early curriculum is broad-based and teaches students the fundamental concepts and principles of Biochemistry and Cell Biology. This will enable students to explore and develop their own interests in various aspects of modern molecular life sciences. As they progress through the program, they will take more advanced and specialized elective courses. BCB students will also have the option of engaging in intensive practical training and research opportunities.

/Career Prospects

BCB graduates will have a broad range of career options. Students will be well-prepared for postgraduate research studies and future employment opportunities in academia, medical and biotechnology research. In addition, BCB graduates will also be fully equipped to pursue other vocational careers in private and government sectors requiring a life science background, including healthcare, biotechnology and education. With recent advances in technology and societal expectations driving an expansion in career and employment opportunities, life science is truly at exciting times.

/Life Science

/BSc in BIOTECHNOLOGY (BIOT)

This program focuses on basic and advanced biotechnological elements related to research, development and manufacturing of biotechnology products, including medicines, cosmetics, agricultural goods, food and healthcare devices. It provides students with theoretical and practical knowledge of the latest biotechnological developments, with particular focus on the applied aspects of life sciences. The curriculum also requires basic understanding of concepts across various biological spectra including biochemistry, cell biology, molecular biology, microbiology and genetics.

/Career Prospects

The BIOT major equips students with various basic and specific biotechnological elements to meet the growing demand in the markets of pharmaceuticals, agriculture, business and education. The underlying objective of the major is to serve as a biotechnology powerhouse to provide a fresh supply of capable manpower to propel this emerging industry. Career opportunities are amply available in both the private and government sectors.

/Highlight

The BIOT program provides students with sound theoretical training in modern life sciences, and acquaints students with practical skills that are crucial for biotech product research, development and production.

/BSc in BIOLOGICAL SCIENCE (BISC)

This versatile program aims to provide students with a broad scope of general biological knowledge, which provides students with comprehensive training in transferable skills as well as opportunities in independent learning required for all career paths. Our Biological Science students are armed with strong skills in acquisition of scientific enquiry and critical thinking and the majority of graduates accept jobs requiring interdisciplinary knowledge. Moreover, students will be equipped with strong problem solving skills and analytical skills throughout their science training. A wide range of career options will be available to our Biological Science graduates.

/Career Prospects

The emphasis of this program is to equip students with a broad scope of general biological knowledge, which provides students with comprehensive training in transferable skills as well as opportunities in independent learning required for all career paths. Our Biological Science students are armed with strong skills in acquisition of scientific enquiry and critical thinking and the majority of graduates accept jobs requiring interdisciplinary knowledge. Moreover, students will be equipped with strong problem solving skills and analytical skills throughout their science training. A wide range of career options will be available to our Biological Science graduates.

/Highlight

The BISC program equips students with knowledge in modern biology related to biosystems, health and education. It facilitates students in broadening their skill base via a selection of elective courses in Engineering, Social Sciences, Humanities and Business.
**BSc in MATHEMATICS (MATH)**
Mathematics permeates almost every discipline of science and technology. It is not only a tool for understanding the abstract models of real world phenomena while solving practical problems, but it is also the language of commerce, engineering and other sciences such as biology, physics and computing. Students will be able to select a track of study from our diverse Mathematics program.

There are seven tracks under the Mathematics program:
- Applied Mathematics Track
- Computer Science Track
- General Mathematics Track
- Mathematics and Physics Track
- Pure Mathematics Track
- Pure Mathematics (Advanced) Track
- Statistics and Financial Mathematics Track

**BSc in PHYSICS (PHYS)**
Physics encompasses everything from the tiniest elementary particle to the ultimate fate of the universe, and provides the foundation for all modern science and engineering. By choosing the Physics program, students will have the opportunity to learn about exciting topics ranging from quantum physics and nanotechnology, to quarks, black holes and superconductivity.

The program offers three options:
- Applied Physics Option
- Physics and Mathematics Option
- Honors Physics Option

**/Career Prospects**
On average around a quarter of MATH graduates pursue further studies, a majority of whom have enrolled in institutions abroad. Another quarter of graduates choose careers in teaching. The remaining graduates are employed in various business and service sectors, including but not limited to administration and management, computer programming, accounting, insurance, marketing sales, purchasing, banking and finance, and academia.

Starting from the 2016-17 academic year, this program is offered as a Joint School Program with the School of Business and Management. See page 14 for details.

Students can pursue further study or work in the fields of education, research and development, technical sales, forensic science, medical industry, commerce, banking, etc. Since students are rigorously trained in analytical and problem solving skills, a wide range of job opportunities await them. Career opportunities are amply available in both the government as well as private sectors.

**/Highlight**
The Physics program provides students with both depth and breadth in their studies. Students who take this program can build a solid and broad background in physics and receive rigorous training in analytical reasoning and hands-on experimental skills. It prepares students for all science-related careers, or for further studies in physics and related fields.
BSc in CHEMISTRY (CHEM)

Students will study all aspects of chemistry and related disciplines. General areas covered include analytical chemistry, inorganic chemistry, organic chemistry, and physical chemistry. Specialized areas include environmental chemistry, medicinal chemistry, biological chemistry, polymer chemistry, materials chemistry including nanostructures, advanced instrumentation, advanced computational and theoretical chemistry.

/Career Prospects
Our graduates have gone on to become chemists or technical staff in government laboratories or private accredited laboratories, school teachers, environmental consultants, chemical engineers, Chinese medicine researchers, pharmacists, marketing representatives for lab equipment suppliers and computer companies, scientific patent officers, script writers, reporters for science journals or magazines, as well as postgraduates that pursue higher degrees in both local and overseas universities.

/Highlight
This program provides excellent general training in both analytical thinking and problem solving. The curriculum, which includes basic training in analytical, inorganic, organic, and physical chemistry and modern laboratory techniques and skills, has been specifically designed to allow students maximum flexibility in determining the extent of their specialization.

ENVIRONMENTAL SCIENCE

BSc in ENVIRONMENTAL SCIENCE (ENVS)

Environmental science is closely-related to everyday life. The environment is an integrated system that encompasses the physical component (air, land, and water), biological component (living organisms and their interactions), human populations, as well as the inter-relationships among these components. The program aims to provide students with a solid training in environmental science with special focus on ecosystems. The program offers a flexible and multidisciplinary curriculum for students to meet their career goals.

/Career Prospects
The ENVS program prepares students for a fulfilling career in government agencies (Agriculture, Fisheries and Conservation Department, and Environmental Protection Department), environmental consultancies (environmental impact assessment, natural resource management), environmental related Non-Governmental Organizations (NGOs) (ecological surveys, ecotourism, public education), education sector and academic research.

/Highlight
The ENVS program aims to provide students with the scientific principles required in the environmental field. Key environmental issues are examined to stimulate their critical thinking skills on current environmental problems and solutions, as well as to motivate them in contributing to environmental conservation either as responsible citizens or as professionals. Students are also encouraged to extend their learning outside of the classroom through field studies, laboratory classes, research projects, and internships.
JOINT SCHOOL PROGRAMS
SCHOOL OF SCIENCE & SCHOOL OF BUSINESS AND MANAGEMENT

BSc in BIOTECHNOLOGY AND BUSINESS (BIBU)
The newly developed program aims to groom students with a hybrid interest in both biotechnology applications and business operations. It offers a broad-based learning experience that cuts across biotechnology, life science and business management theories, in which students will gain transferrable skill sets to place them in good stead in the increasingly competitive job market.

/Career Prospects
The holistic BIBU experience prepares students to excel in any career path they aspire to. Potential employers include multinational pharmaceutical companies, vendors of biotechnology products/services, consulting firms focusing on the biotechnology and pharmaceutical industries, and many more.

/BSc in MATHEMATICS AND ECONOMICS (MAEC)
As the complexity and technical aspects of contemporary economic problems exhibit strong synergy between mathematics and economics, this joint school program aims to provide students with solid training in the fundamental theories of both disciplines. The MAEC program is suited to students who are keen on acquiring a strong quantitative background in economics to work in the business and financial sectors, or who intend to pursue further studies in applied mathematics or business fields such as economics, finance, and management science.

/Career Prospects
Career opportunities in the banking and finance industry are promising for those who are capable of applying mathematical tools to understand the financial markets and make economic forecasts. A number of our graduates have joined top-ranking financial institutions and multinational firms. Moreover, MAEC graduates are equipped with sufficient background for entry into postgraduate programs in economics, financial mathematics, statistics, and other business-related fields. Recent graduates have been admitted into PhD/Master’s programs at leading universities such as University of Oxford, Stanford University, and Yale University.

/Highlight
It is the first undergraduate program in Hong Kong to offer rigorous training in both biotechnology and business, which is designed to prepare students for successful managerial or entrepreneurial careers within the biotechnology industry. The interdisciplinary curriculum equips students with a solid foundation of essential technical knowledge (e.g. recombinant DNA technology, bioprocessing, and genetic engineering) and business know-how. (e.g. accounting, economics, finance, operations management etc.)

Student Advising
The Office of Academic Advising and Support was established in the School of Science to provide students with general orientation to the university, initial advice on course selection and consultation on the choice of major. The Office provides guidance to students on academic-related issues through –

• Providing accurate and relevant information about academic programs and other educational experiences available to them;
• Providing one-on-one consultation on the choice of major and possible double major/major-minor combinations to suit their interests, abilities and goals;
• Explaining university regulations, graduation requirements, and institutional policies and procedures;
• Enhancing their awareness of available educational resources on campus such as internship, mentorship, undergraduate research and exchange programs;
• Encouraging the use of the institutional and community services in support of academic success.

MAGNET (Make A Great Net), a Peer Mentoring Program in the School of Science that aims to help freshmen make a smooth transition to HKUST by providing a supportive environment in which they will meet a diverse group of students who share similar experiences and interests. Peer mentors are selected senior-year students from different science disciplines, who are interested in assisting new students in overcoming the obstacles they may encounter during their first year. The mentor/mentee connection provides an academic, cultural, and social support network for students seeking academic excellence and satisfaction.

First Year Course – SCIE1000 Science School Induction
SCIE1000 Science School Induction, led by faculty advisors, advising staff and peer mentors, is a one-year course designed to provide support and guidance for all-year one science students. It offers activities such as Science Majors Week, Popular Science Talk etc., to help students adapt to university life, explore different majors and connect with faculty and other students.
ENRICHMENT PROGRAM – “SCIENCE FOR SUCCESS”

Exchange Program
Currently, the School has more than eighty exchange partner institutions covering regions including Australia, Europe, North America, Southeast Asia and Mainland China, etc. Students joining the exchange program will be offered opportunities to experience overseas learning and new cultures for an entire semester.

Career Training and Internship Program (CTI Program)
The CTI Program provides Science students with an array of career training activities including one-on-one career consultation on exploring students’ career goals, mock interviews with HR experts from different industries, and firm visits. It also provides individualized services such as referral to partner companies to help students find internship experiences and graduate jobs.

Undergraduate Research Opportunities Program (UROP)
UROP is HKUST’s signature program for undergraduate students to engage in academic research, with the aim of helping them develop a broad and insightful perspective on their areas of interest, under the supervision of seasoned faculty.

University Student Sponsorship Program in Wildlife Conservation (USSP)
Collaborating with the Ocean Park Conservation Foundation Hong Kong, Science students are sponsored to travel overseas to gain first-hand research experience, while contributing to wildlife conservation.

MenTernship Program
Students joining the MenTernship Program are offered opportunities to shadow social dignitaries, either through social encounters and/or internship experience in the mentors’ respective fields.

Cultural Study Tours to Mainland China
Our School has established close relationships with renowned institutions such as China Pharmaceutical University, Tsinghua University and Sichuan University to organize various study tours, encouraging Science students to step out of their comfort zone to experience a glimpse of Chinese culture.

University Student Sponsorship Program – MenTernship Program
To raise students’ awareness of serving the community, service learning trips to Cambodia have been held every year since 2010. Students will be involved in organizing visits and designing service programs for the needy, such as participating in science-related games with orphans, teaching them basic scientific knowledge and hospital visits to show their love and care to patients.

SCi/NUCLEUS Social Service Team
SCi / NUCLEUS is a student-driven social service team established to mobilize Science students, alumni and staff to serve the community. Passionate students will be selected as Social Leaders to not only participate in voluntary services, but also to initiate more activities for members to join.

"Knowledge Without Border” Seminar Series
To broaden students’ horizon beyond their major studies, seminars on a wide spectrum of topics covering culture, politics, economics, and environment, are held on a regular basis.
Studying Mathematics & Economics has been an immensely enjoyable journey for me so far. It has equipped me with both quantitative analytical skills as well as problem-solving skills. In addition, the School of Science has provided plenty of career training and extracurricular learning opportunities. The career building course, in particular, has helped me to develop a deeper understanding of myself and allowed me to identify more prospective career paths. The year-long MenTernship Program has offered an experience to shadow my mentor’s personal experiences and has established an environment for me to enhance my interpersonal communication skills. In the coming semester, I will be an exchange student at the University of California, Los Angeles. I had never expected to be able to gain so many precious experiences. Keep an open mind, be involved, and enjoy yourself at the School of Science!

Shirley HUANG
Year 4, Mathematics & Economics

My visit to the chemistry laboratories was never dull with well-equipped equipment and great instructors. The department of Chemistry has helped me to improve my problem-solving skills tremendously and establish a good fundamental knowledge of chemistry to pursue my dream.

My first summer internship was unique. I had to monitor medical devices in the operating theaters when surgeries took place. It made me realize that the career path of science students can go far beyond the obvious. As a Peer Mentor, I have also learnt to take up responsibilities and be a great leader.

The School of Science is a hub of opportunities and home to all science students. We are well taken care of by the staff at the School of Science and I have no regrets being a part of this big family!

Weng Ki CHING
Year 4, Chemistry

CURRENT STUDENTS SHARING

Studying Biotechnology plays a role in the development of Life Sciences, enabling me to identify my areas of interests. The structure of the program is also well-designed to equip students with the knowledge and skills necessary to put theory into practicality.

The School of Science has also offered a tremendous amount of academic and career support. The MenTernship program gave me an opportunity to explore the media industry from an experienced anchor. The overseas exchange program to Switzerland was an unforgettable eye-opening experience. I have become more confident, independent and reflective. HKUST’s support for students is amazing. Many career advising services, exclusive internships and research opportunities have assured me that my Science degree could lead to a wide range of industries.

Sisley FUNG
Year 4, Biotechnology

The Environmental Science Major provides a wide range exposure through field trips, laboratory classes and other enrichment activities. Not only have I acquired the scientific principles underlying the environmental issues in classes, but I have also gotten closer to nature to observe and apply my knowledge.

The SCI/NUCLEUS Social Service Team has given me a platform to organize voluntary services with external organizations, which has fostered my interpersonal and problem-solving skills.

The infinite opportunities in the School of Science have helped to strengthen my development and I am delighted to be a part of this family.

Venus CHENG
Year 3, Environmental Science

The Biotechnology Major offers us a comprehensive overview of where biotechnology plays a role in the development of Life Sciences, enabling me to identify my areas of interests. The structure of the program is also well-designed to equip students with the knowledge and skills necessary to put theory into practicality.

The School of Science has also offered a tremendous amount of academic and career support. The MenTernship program gave me an opportunity to explore the media industry from an experienced anchor. The overseas exchange program to Switzerland was an unforgettable eye-opening experience. I have become more confident, independent and reflective. HKUST’s support for students is amazing. Many career advising services, exclusive internships and research opportunities have assured me that my Science degree could lead to a wide range of industries.

Sisley FUNG
Year 4, Biotechnology

Studying Physics has equipped me with not only theoretical knowledge, but also applicable skills like programming. The School of Science also supports me a lot on my career planning. I was one of the members in the School’s Career Training and Internship Program which offered personalized consultation and training such as personality test, CV clinic, and interview skills workshop. Currently I am taking a gap year for a year-long placement in the Hong Kong Observatory to gain hands-on experience and broaden my horizons before graduation.

During my leisure time, I often participate in the voluntary services organized by HKUST Connect to serve the community. And last year, I joined the School’s international exchange program to the United States.

Ben TING
Year 4, Physics

The School of Science is a hub of opportunities and home to all science students. We are well taken care of by the staff at the School of Science and I have no regrets being a part of this big family!

Weng Ki CHING
Year 4, Chemistry

Career Prospects

Graduate Employment Survey 2016, Career Center, HKUST

Career Survey

<table>
<thead>
<tr>
<th>Industry</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>19.9%</td>
</tr>
<tr>
<td>Commerce &amp; Business</td>
<td>38.7%</td>
</tr>
<tr>
<td>Engineering &amp; Industry</td>
<td>26%</td>
</tr>
<tr>
<td>Government &amp; Related Organizations</td>
<td>5.8%</td>
</tr>
<tr>
<td>Community &amp; Social Services</td>
<td>9.6%</td>
</tr>
</tbody>
</table>

Statistics of students pursuing further studies are not included in the above survey. Each year, about 20-25% of our science graduates pursue further studies in both local and overseas universities. These overseas universities include:

- Columbia University
- Cornell University
- Duke University
- ETH Zurich
- Harvard University
- Johns Hopkins University
- Massachusetts Institute of Technology
- National University of Singapore
- Princeton University
- Stanford University
- University of British Columbia
- University of California, Berkeley
- University of Chicago
- University of Pennsylvania
- Yale University

38.7% of science graduates pursue further studies in both local and overseas universities. These overseas universities include:

- Columbia University
- Cornell University
- Duke University
- ETH Zurich
- Harvard University
- Johns Hopkins University
- Massachusetts Institute of Technology
- National University of Singapore
- Princeton University
- Stanford University
- University of British Columbia
- University of California, Berkeley
- University of Chicago
- University of Pennsylvania
- Yale University

Career Prospects

Graduate Employment Survey 2016, Career Center, HKUST

Career Survey

<table>
<thead>
<tr>
<th>Industry</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>19.9%</td>
</tr>
<tr>
<td>Commerce &amp; Business</td>
<td>38.7%</td>
</tr>
<tr>
<td>Engineering &amp; Industry</td>
<td>26%</td>
</tr>
<tr>
<td>Government &amp; Related Organizations</td>
<td>5.8%</td>
</tr>
<tr>
<td>Community &amp; Social Services</td>
<td>9.6%</td>
</tr>
</tbody>
</table>
Alumni Sharing

As a biochemistry student, we had to do a lot of laboratory studies. First and foremost, we needed to be patient and highly concentrated in conducting experiments. Our analytical skills were sharpened while we prepared for lab reports. Last but not least, it required sound logical thinking and multidimensional perspectives in problem solving. The science education I received turned out to be very useful for my career.

Ruby LAM
Associate Director, Warrants Sales
Standard Chartered Bank
(Previous Principal Anchor, NOW TV)
BSc (Biochemistry)

I have always been passionate in looking for creative solutions to solve different problems. Starting my business is like a science experiment — you identify a problem, construct a hypothesis and experiment with different possibilities. You must have perseverance to strive for the best solution!

Francis KWOK
Co-Founder & Chief Executive Officer
Radica Systems Limited
BSc (Physics)

I have learned that every scientific theory is derived from logical reasoning and deduction. This has allowed me to easily understand the anatomy, physiological and nutritional impact the performance of horses. The great thing about science is not the theories, but the process of arriving at these theories. They can be applied to many subjects other than science, including business and law modules.

Sidney TAM
Management Trainee
Darley Flying Start
BSc (Biochemistry)

Admission and Scholarships

Admission Requirements

For JUPAS-HKDSE Applicants

<table>
<thead>
<tr>
<th>Program</th>
<th>JUPAS Code</th>
<th>English</th>
<th>Chinese</th>
<th>Mathematics</th>
<th>Liberal Studies</th>
<th>Elective 1 / Elective 2</th>
<th>Specific Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>JSS100</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>IRE</td>
<td>JSS101</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MAEC</td>
<td>JSS813</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 of: Biology / Chemistry / Physics / Combined Science / Integrated Science / M1 / M2</td>
<td></td>
</tr>
<tr>
<td>BIBU</td>
<td>JSS811</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 of: Biology / Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

Note: Students admitted to the Science program can opt to declare their major in any program in the School of Science, Joint School Programs (BIBU and MAEC), and Interdisciplinary Programs.

Applicants with International Qualifications:

In addition to fulfilling the University’s general requirements, applicants applying for:

**Science / IRE / MAEC** program must have at least one senior level subject from **Biology / Chemistry / Mathematics / Physics**

**BIBU** program must have at least one senior level subject from **Biology / Chemistry / Mathematics**

Application & Admission Details: [http://join.ust.hk](http://join.ust.hk)

Scholarships

The University and the School of Science offer a number of scholarships to award students for their academic and non-academic excellence both upon entry and during the course of study. In the 2016/17 academic year, over 2,000 scholarships and prizes were awarded to undergraduate students in various programs of study, with the total value awarded amounting to approximately HK$61 million.