Science
Undergraduate Programmes
Ignite Your Bright Future with Science

2024-25 (September 2024 intake)

6901  BSc Bachelor of Science

6688  BSc&MRes Bachelor of Science & Master of Research (Science Master Class)

6858  BSc&LLB Bachelor of Science and Bachelor of Laws (5-year Double Degree Programme)

6729  BSc(ActuarSc) Bachelor of Science in Actuarial Science

6224  BASc(Applied AI) Bachelor of Arts and Sciences (Applied AI)

6212  BASc Bachelor of Arts and Sciences

6119  BEd&BSc Bachelor of Education and Bachelor of Science (5-year Double Degree Programme)
Programmes We Offer

**Bachelor of Science**
Empowers scientific intellectuals to formulate solutions to society’s challenges

- Simple and flexible
- One entry in the application, with a free choice of 14 Science Majors and 7 Intensive Majors
- Options of 1 Major / 2 Majors / Major Minor / Major 2 Minors
- No quota nor GPA requirement for any Science Major
- Academic Advising System

**Double Degree Programme**
Bachelor of Science & Master of Research (Science Master Class)
Incubates the next generation of scientists

- Fast-track for completing 2 degrees
- Learning from Science Masters
- Catering the needs of elite students
- Research-oriented

**5-year Double Degree Programme**
Bachelor of Science and Bachelor of Laws
Nurture professionals with scientific and legal knowledge in a STEM-driven society

- First of its kind in Hong Kong
- Fast-track for completing 2 degrees in science and law
- Interdisciplinary training for science talents and legal professionals
- Free choice of 14 Science Majors
- Articulation to Postgraduate Certificate in Laws (PCLL) as a step towards professional legal qualification

**Bachelor of Science in Actuarial Science**
A gateway to the actuarial profession with internationally recognised qualifications

- The only programme in Hong Kong accredited by the Institute and Faculty of Actuaries of UK
- Designated as a Center of Actuarial Excellence with University-Earned Credit programme by the Society of Actuaries of North America
- Provides specialist academic and professional training
- Internship opportunities and career prospects in major insurance companies, actuarial consulting firms, investment banks, etc.

**Bachelor of Arts and Sciences in Applied Artificial Intelligence**
Impacts the world with the limitless power of AI

- Interdisciplinary programme for elite students
- Highlights diverse AI applications with featured concentrations
- Problem-based learning with a wide range of courses
- Broad career prospects

**Bachelor of Arts and Sciences**
Nurtures future global leaders to make changes in an interconnected world

- Unique programme for elite students to develop a broad set of scholarly skills
- Well-designed study pathways: 1) Cultures/ Societies 2) Physical World/ Biological/ Human Sciences
- Wide career prospects

**5-year Double Degree Programme**
Bachelor of Education and Bachelor of Science
Consolidates scientific knowledge through practical experience and teaching in science

- Covers both academic and professional studies
- Incorporates a graduate teaching qualification
- Development opportunities not just in education, but also in commercial and government sectors
Why HKU Science

Global Experiences
Committed to nurturing students as global citizens with overseas experiences such as:

- Worldwide exchange studies
- Overseas Research Fellowship
- Field trips
- Overseas summer courses
- International scientific conferences
- Internships

International Environment
About 40% academic staff in the Faculty are from overseas

Top-ranked Scientists
Clarivate Analytics’ Essential Science Indicators
18.3% of our professoriate staff (average over the past decade) are classified Top 1% scholars

Career Prospects
Essentially 100% employment rate (inclusive of further studies) in the past decade

High University Rankings

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Young Scientist Scheme (YSS)
Ample early research experiences for outstanding students in the 6901 BSc Programme and 6688 Science Master Class Programme

Cambridge-track under YSS
HKU-Cambridge Undergraduate Recruitment Scheme (Natural Sciences) for selected YSS participants

- Earning 3-4 degrees upon successful completion of 2 years of studies at HKU and 2-3 years of studies at Cambridge

Intensive Majors
Specialisation and intensive training make experts

- Biological Sciences (Intensive)
- Chemistry (Intensive)
- Ecology & Biodiversity (Intensive)
- Geology (Intensive)
- Mathematics (Intensive)
- Molecular Biology & Biotechnology (Intensive)
- Physics (Intensive)

Accreditations
Quality assured through recognition by international professional bodies

Articulation Pathways
Seamless articulation to widely recognised postgraduate programmes

- Taught Postgraduate Programmes at HKU Science
- Doctor of Veterinary Medicine (DVM) at University of Melbourne (UoMelb)

Minor in Science Entrepreneurship
Opening the doors to science entrepreneurship

- Visualises how training in science bears relevance to the real world

International Environment

Department:
- Biological Sciences
- Chemistry
- Earth Sciences
- Mathematics
- Physics
- Statistics & Actuarial Science

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International Environment

Department:
- Biological Sciences
- Chemistry
- Earth Sciences
- Mathematics
- Physics
- Statistics & Actuarial Science
Bachelor of Science

Empowers scientific intellectuals to formulate solutions to society’s challenges

The Programme
One entry in the application, with a free choice of

14 Science Majors
• Biochemistry
• Biological Sciences
• Chemistry
• Decision Analytics
• Earth System Science
• Ecology & Biodiversity
• Environmental Science
• Food & Nutritional Science
• Geology
• Mathematics
• Molecular Biology & Biotechnology
• Physics
• Risk Management

7 Intensive Majors
• Biological Sciences
• Chemistry
• Ecology & Biodiversity
• Geology
• Mathematics
• Molecular Biology & Biotechnology
• Physics

Specialisation and intensive training make experts
• Offered alongside with the regular 96-credit Majors
• Provides students with extensive subject knowledge
• Equips students who intend to pursue research in science
• Listed in the transcript
• Has an advantage in job application, postgraduate studies, and when seeking chartered status

Key Features
Academic Advising System
One-on-one academic advice

Options of 1 Major / 2 Majors / Major-Minor / Major-2 Minors
Students may take a 2nd Major or a Minor or 2 Minors in Science or non-Science disciplines

No Quota nor GPA requirement for any Science Major

Simple and Flexible
• One entry in application for a choice of 14 Majors and 7 Intensive Majors
• Up to 2 years time to choose a Major
• Flexibility in changing Majors

Tackling Novel Situations
Nurture a scientifically literate population to address the global challenges that human faces and to make wise decisions informed by scientific understanding

Career Prospects
Many of our graduates are holding positions that demand scientific expertise, such as environmental scientists, nutritionists, clinical scientists, meteorologists, geologists, information specialists, financial analysts, teachers, and forensic scientists

In particular, by equipping the students with in-depth knowledge and skills to tackle intricate and novel challenges posed by Environmental, Social, and Governance (ESG) issues, many of our majors have proven to be especially effective in nurturing ESG talents. As the importance of ESG continues to grow globally, our majors provide students with a manifest edge in the job market and the ability to impact their chosen field positively.

Our graduates are preferred by employers because of their numerical analytical skills, logical thinking and critical thinking

Essentially 100% employment rate (inclusive of further studies) in the past decade

Accredited by:

1. HKIQEP
2. Hong Kong Society of Biology
3. Chemistry Society
4. The Geological Society
Young Scientist Scheme

for Outstanding Students in 6901 Bachelor of Science & 6888 Science Master Class

What is Young Scientist Scheme (YSS) all about?

We are committed to providing outstanding students with the best science education and ample early research experiences, incubating the next generation of scientists.

A wide spectrum of scientific research areas

- Biological Sciences
- Chemistry
- Earth Sciences
- Mathematics
- Physics
- Statistics and Actuarial Science

Institutions for Overseas Research Fellowship

Examples

North America
- California Institute of Technology
- Columbia University
- Cornell University
- Massachusetts Institute of Technology (MIT)
- Stanford University
- University of California at Berkeley
- University of California at Los Angeles

Europe
- CERN
- University of Cambridge
- University College London

North America
- University of California
- University of Chicago
- Columbia University
- Johns Hopkins University
- Stanford University
- Yale University

Europe
- University of Cambridge
- Imperial College London
- King’s College London

Universities for international exchange, visiting or summer study

Year 1
- Individual Guidance from Research Mentor
- Summer Research Fellowship

Year 2
- 2nd Summer Research Fellowship or Overseas Research Fellowship

Year 3
- International Exchange, Visiting or Summer Study
- Final Year Project
- International Conference
- Frontiers of Science Honours Seminar

Year 4
- Overseas Research Fellowship

Students in YSS are guaranteed with

- Enrolment in our flagship Summer Research Fellowship (SRF) Scheme to conduct research under the supervision of our professors in the first summer
- A further SRF or an Overseas Research Fellowship (ORF) Scheme in a foreign institution in a subsequent year
- International exchange, visiting or summer study
- An entrance scholarship ranging from HKD 10,000 to HKD 70,000*

Admissions of Students

Remarks:
1. Students who do NOT opt for a Master’s degree at Cambridge will take extra research internships at HKU to fulfil the University’s graduation requirements
2. Students will pay HKU fees and Cambridge fees for their study at HKU and Cambridge, respectively
3. Regular major will be listed on transcript when conferring BSc(HKU) to MBB students
4. The MA is conferred by right on holders of the BA degree at Cambridge, upon application after certain years’ seniority as members of Cambridge

HKU-Cambridge Undergraduate Recruitment Scheme (Natural Sciences)

Cambridge-track for Selected YSS Participants in Natural Sciences Disciplines

Earning 3-4 degrees upon successful completion of 2 years of studies at HKU and 2-3 years of studies at Cambridge

Study Path for YSS Students in the Cambridge Scheme (2+2+1) mode

HKU Undergraduate Degree || Cambridge Undergraduate Degree || Cambridge Master’s Degree

YEAR 1 || YEAR 2 || YEAR 3 || YEAR 4 || YEAR 5

1. Admissions test & interview in year 2 by Cambridge teachers
2. Conditional offer
3. Satisfying the requirements
4. Firm offer by the end of year 2

Remarks:
- Students who do NOT opt for a Master’s degree at Cambridge will take extra research internships at HKU to fulfil the University’s graduation requirements
- Students will pay HKU fees and Cambridge fees for their study at HKU and Cambridge, respectively

Students in YSS are guaranteed with

- Ample learning opportunities in YSS
- Nurtures future science professionals to develop innovative solutions for global challenges
- Allows students to experience overseas life and culture
- A joint recruitment scheme that allows selected YSS students to pursue studies in two renowned universities

Why not BOTH?

Key Features

- A joint recruitment scheme that allows selected YSS students to pursue studies in two renowned universities
- Allows students to experience overseas life and culture
- Nurtures future science professionals to develop innovative solutions for global challenges
- Amplifies learning opportunities in YSS

Enrolment in our flagship Summer Research Fellowship (SRF) Scheme to conduct research under the supervision of our professors in the first summer

A further SRF or an Overseas Research Fellowship (ORF) Scheme in a foreign institution in a subsequent year

International exchange, visiting or summer study

*Scholarships for Non-UPAS students are considered on case-by-case basis

HKUer or Cantab?
Articulations Pathways

Seamless articulation to widely recognised postgraduate programmes

Taught Postgraduate Programmes

@ HKU Science

Articulates HKU Bachelor Programmes to HKU Science Taught Master Programmes

4 years

6901 Bachelor of Science

6729 Bachelor of Science in Actuarial Science

6224 Bachelor of Arts and Sciences in Applied Artificial Intelligence

1.5 years

Full-time study mode of 1 year or 1.5 years

1 year

• Master of Statistics
  • MSc in Environmental Management
  • MSc in the field of Applied Geosciences
  • MSc in the field of Food Industry: Management and Marketing
  • MSc in the field of Food Safety and Toxicology
  • MSc in the field of Physics
  • MSc in the field of Space Science

1.5 years

• Master of Data Science
  • MSc in Artificial Intelligence

Guaranteed admission to selected outstanding students

• Provides a convenient channel of specialised training for deepening knowledge in specific fields of science

Application requirements

• Students who have completed year 3
• With a CGPA of 3.5 at graduation
• Fulfilment of the MSc/ MStat/ MDASC admissions requirements

Remark: the list of taught postgraduate programmes for this articulation pathway is subject to change

Doctor of Veterinary Medicine (DVM)

Pathway to talented students who aspire to pursue a career in veterinary medicine

In collaboration with University of Melbourne (UoMelb) in Australia, HKU Science provides a pathway to 6901 BSc students with the following majors to articulate into the DVM of the UoMelb:

- Biochemistry
- Biological Sciences
- Ecology/Biodiversity
- Molecular Biology
- Biotechnology
- Food/ nutritional Science
- Food & Nutritional Science
- Molecular Biology & Biotechnology
- Veterinary Medicine

Obtains 2 degrees from the 2 universities in as fast as 7 years

- the HKU BSc degree and the DVM in UoMelb

HKU BSc + UoMelb DVM articulation pathway to the Doctor of Veterinary Medicine at the University of Melbourne

Credits transferred to HKU BSc

Successful completion of a minimum of 6 semesters gaining 186 credits under BSc 6901 programme

Quota: A maximum of 5 places annually

Requirements for selected HKU Science undergraduate students

- Credits obtained during the first year of DVM at UoMelb can be transferred to HKU as electives for fulfilling the credit requirements of the BSc programme (subject to relevant HKU regulations)

Programme fees: Students will pay HKU fees and UoMelb fees for their study at HKU and UoMelb, respectively

Career aspects

- Graduates can register as veterinary surgeons and practise in HK through Veterinary Surgeons Board of Hong Kong and in many countries such as Australia, UK and US.

About DVM @ UoMelb

Renowned university in the global arena

Its DVM programme ranks 26th in Veterinary Science of QS World University Rankings 2023

Accredited by the Australasian Veterinary Boards Council Inc. (Australia), American Veterinary Medical Association (USA) and Royal College of Veterinary Surgeons (UK)
Minor in Science Entrepreneurship

Opening the doors to entrepreneurship

Aims
• Broadening the horizon of our undergraduate students with respect to entrepreneurship
• Offering more competitive edges to our students by connecting their academic knowledge with the real world
• Bringing students huge insights through critical analysis of existing enterprises’ operation

Start

Highlights
• Co-taught by other Faculties such as HKU Business School
• Strong emphasis on practical experience: Internship, Capstone projects
• Mentorship by entrepreneurs or senior staff in industry/business
• Incorporates new courses tailor-made for this Minor such as organisational behaviours, leadership, principles of technology entrepreneurship, science-based innovation development, strategic marketing and user analysis

Accreditations

Quality assured through recognition by international professional bodies

Royal Society of Biology (RSB), UK
• Biological Sciences, Ecology & Biodiversity and Molecular Biology & Biotechnology Intensive Majors have been conferred the accreditation
• The Ecology & Biodiversity Intensive Major is the first programme of its kind accredited by RSB in Asia
• Students completed the RSB accredited programme will be awarded a certificate by the School of Biological Sciences, with authorisation by the RSB, to recognise their achievements
• Graduates will receive one year of guest membership of RSB at Associate level, helping them to:
  - stay up-to-date with what is happening across life sciences
  - gain additional recognition for their skills and experience
  - demonstrate their support for the future of biology
  - develop their professional network

Royal Society of Chemistry (RSC), UK
• Exclusively for students who wish to specialise in chemistry
• Students completed the RSC accredited Chemistry Intensive programme will be awarded a certificate by the Department of Chemistry with authorisation by RSC to recognise their achievements
• All students in the final year of this accredited programme are qualified to apply for membership to RSC

Hong Kong Institute of Qualified Environmental Professionals (HKIQEP)
• The Environmental Science Major has been conferred the accreditation
• Students need to complete 7 specific advanced courses for the accredited pathway and can enrol in HKIQEP’s Student Membership during their study at HKU
• Students who graduate on the HKIQEP accredited programme will:
  - have a fast-track to Professional Membership (only 5 years of work experience needed after the degree)
  - be exempted from certain portions of the Professional Assessment

Accredited Degree

Royal Society of Chemistry (RSC), UK
Accredited Degree

The Geological Society, UK
Accredited programme

Over 300 partner universities in more than 40 countries, including:

North America
• University of California
• The University of Chicago
• Columbia University
• Johns Hopkins University
• Stanford University
• Yale University

Europe
• University of Cambridge
• University of Oxford
• Imperial College London

Internships
Opportunities in:
• Government bodies
• Scientific laboratories
• Non-government agencies / NGOs
• Commercial companies

Diverse Learning Experiences

Undergraduate Research Experiences

Examples:

Overseas Research Fellowship (ORF):

North America
• California Institute of Technology
• Columbia University
• Cornell University
• MIT

Europe
• CERN
• University of Cambridge
• University College London

Summer Research Fellowship (SRF)
Colloquium Final-year Projects
Directed Research

Diverse Learning Experiences

Undergraduate Research Experiences

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Summer Research Fellowship (SRF)
Colloquium Final-year Projects
Directed Research

Diverse Learning Experiences

Undergraduate Research Experiences

Examples:
Science Master Class
Learn from the Best Minds | Be Inspired by Our Science Masters

Double degree programme for elite students

Provides a fast-track of study for talented students:

Completing 2 degrees at an accelerated pace

Bachelor of Science | Master of Research

BSc | MRes

Remarks: Students in the programme have to maintain a high CGPA in order to remain in this double degree programme or else they have to switch to the BSc programme.

Learning from Renowned Scientists Including:
- Members of Chinese Academy of Sciences
- Members of Academy of Sciences of Hong Kng
- International Member for US National Academy of Sciences
- Foreign Member of Academia Europaea
- Awardees of State Natural Science Awards
- A number of highly cited scientists

Caters specifically to the needs of science-inclined students, with more learning opportunities, intensive training and inspirations.

Allows research-aspired students to immerse themselves in an authentic research environment and learn from Grand Masters and Masters with diverse backgrounds in Science.

Grand Masters through special tutorials.

Masters as academic advisers.

Incubates the next generation of dynamic scientists who are able to translate scientific knowledge into practical applications with far- and wide-reaching impacts.

Disciplinary-based intensive study for research-aspired students.

Career Prospects:

Professional recognition
- 5 Intensive Majors fulfill accreditation requirements of various societies in the UK
- Biological Sciences (Intensive)
- Ecology & Biodiversity (Intensive)
- Molecular Biology & Biotechnology (Intensive)
- Geology (Intensive)
- Chemistry (Intensive)

Career development & network
- Nurtures students who intend to pursue research in science
- After completing the BSc and the MRes, students will be fully equipped to further pursue graduate studies in prominent universities overseas or in HKU
- Builds a consortium of young researchers for cross fertilisation of innovative ideas and facilitate possible multidisciplinary projects

Transferable skills
- Provides students with extensive subject knowledge and specialised training
- Nurtures a scientifically literate population to formulate solutions for challenges

Programme website
Bachelor of Science and Bachelor of Laws

Nurtures professionals with scientific and legal knowledge in a STEM-driven society

Double degree programme • Attaining 2 degrees in 5 years

The Programme

LAWS (156 credits)
- Foundational legal concepts and systematic honing of professional skills such as critical thinking, analytical and problem-solving skills, etc.
- Courses on case reading, legal research and writing and statutory interpretation, etc.
- Valuable experiential learning opportunities
  - Mooting competitions, clinical legal education

SCIENCE (96 credits)
- Scientific knowledge & research skills
  - Lectures, laboratory courses and workshops

UNIVERSITY EDUCATION (36 credits)
- Language core courses
- Common Core Courses
- Non-credit bearing requirement

INTERDISCIPLINARITY (12 credits)
- Cross-disciplinary knowledge, analytical and evaluation skills
  - Independent research experience with original thinking
  - Research projects, field camps and project-based courses
  - Work experience
    - Internships, placements

Interdisciplinary knowledge and skills in SCIENCE and LAW

Key Features

First of its kind in Hong Kong for students who intend to develop expertise in both science and law

- Cultivates legal and scientific mindsets for academic talents
- Copes with the soaring demand of patent practitioners and legal professionals in the technology industry
- Feeds into the development of science talents who are capable of handling a wide variety of innovation-related matters such as patent applications

Career Prospects & Articulation Pathways

Transferable skills
- Provides students with extensive subject knowledge and specialised training in law
- Nurtures a scientifically literate population with legal knowledge to formulate solutions for challenges

Articulation
- Eligible to apply for the Postgraduate Certificate in Laws (PCLL) after completing the double degree programme
- In a position to apply for other postgraduate programmes in law or science

World Rankings

HKU
- Qs World University Rankings 2024 #26
- QS World University Rankings by subject 2023 #30

LAW
- #25

SCIENCE
- #43 Life Sciences
- #47 Physical Sciences
- #57 Natural Sciences

Programme website
### Bachelor of Science in Actuarial Science

**A gateway to the actuarial profession with internationally recognised qualification**

**The Programme**
- Provides specialist academic and professional training in actuarial science
- Prepares students for professional examinations to Associateship level
- Accredited by professional body where graduates will be exempted from various professional examinations (subject to re-accreditation)
- Offers courses with Validation by Educational Experience (VEE)
- Internship opportunities with major insurers, actuarial consulting firms, reinsurers, investment firms, auditing firms and management consulting firms

**Key Features**
- Specialisation: The ONLY programme in Hong Kong accredited by Institute and Faculty of Actuaries
- Professional recognition: The Department of Statistics & Actuarial Science has been designated a Centre of Actuarial Excellence by the Society of Actuaries since 2011

**Career Prospects**
- Abundant career opportunities in Hong Kong and mainland China. Graduates develop their careers in major insurance and reinsurance companies, actuarial consulting firms and investment banks

**Dr Patrick S C Poon Scholarship in Actuarial Science**
- 5 scholarships are awarded annually to freshly-admitted first year students with outstanding entrance records, each at HK$50,000 or HK$60,000
- Renewable based on satisfactory performance in each year’s study in the programme

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### Bachelor of Arts and Sciences in Applied Artificial Intelligence

**Impacts the world with the limitless power of AI**

**The Programme**
- Highlights diverse AI applications to help students develop intellectual capacity for meeting new challenges
- Emphasises problem-based learning with a wide range of courses: computer science, geography, mathematics, psychology, statistics and urban studies
- Delivers both fundamental and practical knowledge in the design and construction of intelligent systems to fit into different career settings
- Nurtures students to transfer interdisciplinary scientific knowledge into a range of integrated applications and technological innovations

**Career Prospects**
- Science and technology, environmental protection, medical informatics, health care, business, banking, finance, urban development, neurocognitive science, etc.

**Interdisciplinary programme for elite students**
- Provides formal academic training to elite students who wish to join the AI profession

**Featured concentrations**
- Technology in Business and Finance
- Technology in Smart City
- Technology in Medicine
- Technology in Neurocognitive Science

**Interdisciplinary training**
- Facilitates a coordinated approach in collaboration with the Faculties of Engineering, Social Sciences and Architecture
Bachelor of Arts & Sciences

Nurture future global leaders to make changes in the interconnected world

The Programme

Designed for intellectually ambitious students who want to develop a broad set of scholarly skills in order to become leaders across a diverse range of fields to meet important global challenges

- Social intelligence
- Creative problem-solving
- Analytical skills
- Communication skills
- Ethical responsibility
- Interdisciplinary perspective in understanding our world

Key Features

Interdisciplinary major
Students take disciplinary courses from the 3 Faculties and also elective courses within 2 pathways:

- Cultures
- Societies

Developing intellectual toolkit
Learn how to intertwine knowledge from various disciplines and integrate them together through

- Case studies
- Capstone learning
- Experiences of thought leaders in professions

Co-offered by 3 Faculties

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Career Prospects

Wide career prospects in government, management consultancy, public relations, banking, public policy, environmental services, museums, heritage or science writing/journalism and non-governmental organisation work, etc.

Bachelor of Education and Bachelor of Science

Consolidates scientific knowledge through practical experience and teaching in science

The Programme

Requires students to complete 300 credits of course units including:

- Science courses to fulfill the requirement of a Science Major
- Education professional core courses with the Faculty of Education

Key Features

- Thorough knowledge of Science subject, broad understanding of educational issues, and high level classroom expertise prepare graduates for teaching Science at all levels in local secondary and international schools
- Graduates also find employment opportunities in industrial and government sectors in which BSc graduates are often employed

Career Prospects

Professional training

- Incorporates a graduate teaching qualification equivalent to a BSc plus a Postgraduate Diploma in Education
- Pedagogy courses and Teaching Practice in Hong Kong secondary schools

Programme offered jointly by

- Faculty of Science
- Faculty of Education

Programme website
**Physics** Brian CHAN
BSc alumnus (major in Physics and Astronomy)

My experience studying physics at HKU provided valuable research and mathematical skills that have been essential in my AI work. My scientific background provides me with the ability to bring rigour and precision to the business world, resulting in the development of better algorithms. Physics also taught me to tackle complex problems by breaking them down, a skill that one finds useful in all aspects of life. Science graduates are highly sought-after, especially if they also possess strong interpersonal and presentation skills.

**Food and Nutritional Science**
Vivian CHOI
BSc alumna (major in Food and Nutritional Science)

Master of Science in the field of Food Safety and Toxicology

This Major equipped me with essential technical skills regarding nutrition and toxicology, and the knowledge of human physiology and biochemistry, which are very relevant to my job. Volunteering in a laboratory at SBS since Year 2 was the most rewarding experience during my undergraduate study. The opportunity to participate in human and animal nutritional research consolidated my technical skills and allowed me to find my own niche. After that, I further developed my interest in toxicology and regulatory affairs while I pursued my MSc degree in Food Safety and Toxicology from HKU.

**Environmental Science**
Mark CHEUNG
BSc alumnus (major in Environmental Science)

I am dedicated to addressing the climate crisis and promoting climate justice. The Environmental Science Major in the Bachelor of Science programme does not only give me the fundamental knowledge to fight climate change. Its interdisciplinary nature and interconnectedness of climate change across different areas offered me unique perspective and confidence to voice my opinions in international initiatives, such as being the leader of the first university student delegation from Hong Kong to attend the Conference of the Parties (COP27).

**Articulation to DVM@UoMelb**
Jason WONG
BSc student (major in Molecular Biology and Biotechnology)

I was genuinely interested in biology since high school, and I was aware that there is an articulation pathway with this degree to Veterinary Medicine (DVM), which further encouraged me to join this programme. The Major provides specialised training in molecular and cell biology and translating basic knowledge into medical and medical applications, with research opportunities to work in animal labs, where the concept of biosecurity and animal husbandry were first introduced to me. I further explored my interest in the field by volunteering at vet clinics. These experiences fueled my desire to become a veterinarian, leading me to enroll in the DVM programme at The University of Melbourne.

**Mathematics**
Yaocen WU
BSc alumnus (major in Mathematics and minor in Physics)

For me, mathematics is a beautiful language which reveals subtle things in its own way. I received much instruction and help from different members of the Department of Mathematics, in particular during the research projects or seminars. Teachers were always patient and encouraging, yet they were also serious and set challenging goals for me. If you appreciate the beauty of mathematics, you will certainly wish to join this Major where you can find plenty of opportunities and great instructors.

**Chemistry**
Daisy LEUNG
BSc alumnus (major in Chemistry)

As a Chemistry student at HKU, I was exposed to a myriad of opportunities, including gaining experiences through internships. The curriculum is comprehensive and flexible that enables students to develop an independent and logical mindset and acquire meticulous analytical skills. It also allows students to choose their own interest in specific chemistry areas.

**Statistics**
Feiqing HUANG
BSc alumna (major in Statistics)

Department of Statistics and Actuarial Science provided me with a diversity of opportunities that satisfied my cravings for inspiration and all-round development. There were Overseas Research Fellowship (ORF) Scheme and Career Advising Programme (CAP) tailor-made for statistics and actuarial science students. The accessibility to abundant opportunities was what I was truly grateful for, as it prepared me to embrace the challenge when the time arrives.

**Science Entrepreneurship**
Cameron Xavier VAN BREDA
BSc alumnus (major in Molecular Biology and Biotechnology, minor in Science Entrepreneurship)

As a recipient of Future Leaders of the Year Scholarships (HKU), I was exposed to a plethora of opportunities, including gaining experiences through internships. The curriculum is comprehensive and flexible that enables students to develop an independent and logical mindset and acquire meticulous analytical skills. It also allows students to choose their own interest in specific chemistry areas.

This programme encouraged and facilitated a lot for us to establish our own start-ups, putting into the eyes of industry players using the university’s platform to reach out and connect. Teachers also had driven and grounded the innovation and business potential of students’ start-ups.
## JUPAS Applicants

**Minimum programme entrance requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>English Language</th>
<th>Chinese Language</th>
<th>Mathematics</th>
<th>Citizenship and Social Development/Liberal Studies</th>
<th>Elective Subjects: Category A subjects and Extended Module 1 or 2 in Mathematics (M1/M2)</th>
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</thead>
<tbody>
<tr>
<td>BSc &amp; 6119 BEd&amp;BSc</td>
<td>Level 3</td>
<td>Level 3</td>
<td>Level 2</td>
<td>Level 3 in 2 subjects^</td>
<td>Level 3 in 2 Science# or 1 Science#  + M1/M2</td>
</tr>
<tr>
<td>BSc&amp;MRes</td>
<td>Level 3</td>
<td>Level 3</td>
<td>Level 2</td>
<td>Level 3 in 2 subjects^</td>
<td>Level 3 in 2 subjects^</td>
</tr>
<tr>
<td>BSc&amp;LLB</td>
<td>Level 5</td>
<td>Level 4</td>
<td>Level 2</td>
<td>Level 4</td>
<td>Level 4 in M1/M2 Level 3 in 1 subject</td>
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<tr>
<td>BSc(ActuarSc)</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 2</td>
<td>Level 4</td>
<td>Level 3 in 2 subjects^</td>
</tr>
<tr>
<td>BASc(AppliedAI)</td>
<td>Level 4^</td>
<td>Level 3</td>
<td>Level 2</td>
<td>Level 2</td>
<td>Level 3 in 2 subjects^</td>
</tr>
<tr>
<td>BASc</td>
<td>Level 5^</td>
<td>Level 3</td>
<td>Level 2</td>
<td>Level 2</td>
<td></td>
</tr>
</tbody>
</table>

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^ One of the elective subjects must be a Science subject: Biology, Chemistry, Physics, Combined Science, or Integrated Science

# Science elective subjects: Biology, Chemistry, Physics and Combined Science

^ Candidates with level 4 in English Language, if admitted, will be required to take 6 additional credits in Core University English to complete their degree studies

+ Candidates with level 4 in English Language and good results in other HKDSE subjects will be exceptionally considered on a case-by-case basis.

If these candidates are admitted, they will be required to take 6 additional credits in University English to complete their degree studies

▲ Level 3 or above in M1/M2 is preferred

## Non-JUPAS Applicants

Students holding non-HKDSE qualifications are considered on an individual basis

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**HKU Undergraduate Admissions**

[https://admissions.hku.hk](https://admissions.hku.hk)

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**BSc, BSc&MRes, BSc&LLB, BSc(ActuarSc) & BASc(AppliedAI): Faculty of Science**


[3917-2683](tel:3917-2683)

[sci.ug.admission@hku.hk](mailto:sci.ug.admission@hku.hk)

**BEd&BSc: Faculty of Education**

[web.edu.hku.hk/programme/bedbsc_6119](http://web.edu.hku.hk/programme/bedbsc_6119)

[3917-4659](tel:3917-4659)

[bedbsc@hku.hk](mailto:bedbsc@hku.hk)

**BASc: Faculty of Social Sciences**

[www.socsc.hku.hk/basc/](http://www.socsc.hku.hk/basc/)

[3917-1212](tel:3917-1212)

[bascfoss@hku.hk](mailto:bascfoss@hku.hk)