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
Nurtures 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

**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
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

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
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

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

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

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

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

Accredited by:
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
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

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
- Ample learning opportunities in YSS

Entry Requirements
- Admissions test & interview in year 2 by Cambridge teachers
- Satisfying the requirements by the end of year 2
- Firm offer by the end of year 2

HKU-Cambridge Undergraduate Recruitment Scheme (Natural Sciences)
Cambridge-track for Selected YSS Participants in Natural Sciences Disciplines

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

Year 4
- International Conference
- Frontiers of Science Honours Seminar

Study Path for YSS Students in the Cambridge Scheme (2+2+1) mode
HKU
- BSc(HKU)*
- BA(Cantab)
- MA(Cantab)*
- MSci(Cantab)

Cambridge
- 2 years at HKU
- 2 years at Cambridge
- 2+1 years at Cambridge

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

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

How to Enrol in the Cambridge-track
Number of students selected for each cohort normally will not exceed 60% of the YSS population

HKU or Cantab?
Why not BOTH?

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

HKU Undergraduate Degree
Cambridge Undergraduate Degree
Cambridge Master’s Degree

Applications open on 10 October 2023
**Articulations Pathways**

Seamless articulation to widely recognised postgraduate programmes

**Taught Postgraduate Programmes**

@ HKU Science

Articulates HKU Bachelor Programmes to HKU Science Taught Master Programmes

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**HKU 6901 Bachelor of Science**

- **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

**Quota:** No quota for the aforementioned articulation pathway except that for Master of Data Science, a maximum of 2 places will be offered each year

**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

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**Doctor of Veterinary Medicine (DVM)**

@ University of Melbourne (UoMelb)

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

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

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

**Quota:** A maximum of 5 places annually

**Requirements for selected HKU Science undergraduate students**

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

**Credits transferred to HKU BSc**

- HKU 6901 Bachelor of Science
- HKU BSc degree

**Doctor of Veterinary Medicine (DVM) at the University of Melbourne (UoMelb)**

- BSc
- DVM degree at UoMelb

**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)

**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.
Minors 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

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 who graduate on 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
  - demonstrate their support for the future of biology
  - gain additional recognition for their skills and experience
  - 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

Diverse Learning Experiences

Undergraduate Research Experiences

Examples:
- North America
  - California Institute of Technology
  - Columbia University
  - Cornell University
  - MIT
- Europe
  - CERN
  - University of Cambridge
  - University College London

Overseas Research Fellowship (ORF):
- Students completed the ORF will be awarded a certificate by the School of Biological Sciences, with authorisation by the RSB, to recognise their achievements
- All students in the final year of this accredited programme are qualified to apply for membership to RSB

International Exchange Studies

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

Field Trips
Provide students with hands-on learning experience

Examples of field trip destinations:
- North America
  - California Institute of Technology
  - Columbia University
  - Cornell University
  - MIT
- Europe
  - CERN
  - University of Cambridge
  - University College London
  - Stanford University

Overseas Research Fellowship (ORF):
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- All students in the final year of this accredited programme are qualified to apply for membership to RSB

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

Accreditations
Quality assured through recognition by international professional bodies

Royal Society of Chemistry (RSC), UK
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Field Trips
Provide students with hands-on learning experience

Examples of field trip destinations:
- North America
  - California Institute of Technology
  - Columbia University
  - Cornell University
  - MIT
- Europe
  - CERN
  - University of Cambridge
  - University College London
  - Stanford University
  - University of California at Berkeley
  - University of California at Los Angeles

Overseas Research Fellowship (ORF):
- Students completed the ORF will be awarded a certificate by the School of Biological Sciences, with authorisation by the RSB, to recognise their achievements
- All students in the final year of this accredited programme are qualified to apply for membership to RSB

The Geology Society, UK
- Students completed specified Geology Intensive programme and fulfilled the specific project requirement in EASC4999 Earth Sciences Project will receive an accredited degree which provides an accelerated route to achieve the qualification
- Students completed The Geological Society accredited programme will be awarded a certificate by the Department of Earth Sciences with the authorisation by the Society to recognise their achievements
- Qualification recognised internationally and in Hong Kong, and chartered geologists are regarded as professionally equivalent to chartered engineers

Hong Kong Institute of Qualified Environmental Professionals

- 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
  - stay up-to-date with what is happening across life sciences
  - demonstrate their support for the future of biology
  - gain additional recognition for their skills and experience
  - 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
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 BSc  Master of Research 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 6901 BSc programme.

Learning from Renowned Scientists including:

• Members of Chinese Academy of Sciences
• Members of Academy of Sciences of Hong Kong
• Members of Hong Kong’s Young Academy of Sciences
• International Member for US National Academy of Sciences
• Foreign Member of Academia Europaea
• Awarded 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)

There is no accreditation available in the fields of Mathematics and Physics

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
Bachelor of **Science** and Bachelor of **Laws**

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

### 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

### Interdisciplinary knowledge and skills in **SCIENCE** and **LAW**

**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

### 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

### 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

### Career Prospects & Articulation Pathways

- **Educational institutions**
- **Entrepreneurs in biotechnology industry**
- **Researchers in the fields of science or law**
- **Sollicitors, barristers of in-house counsel (specialising in intellectual property/technology-related matters)**
- **Further studies in science**
- **Professional qualifications in business management, accountancy, corporate administrations, etc.**

### World Rankings

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Double degree programme • Attaining 2 degrees in 5 years
**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
  - North America: Institute and Faculty of Actuaries, Casualty Actuarial Society and Society of Actuaries
  - UK: Institute and Faculty of Actuaries
- Accredited by professional body where graduates will be exempted from various professional examinations (subject to re-accreditation)
  - North America: Society of Actuaries
- Offers courses with Validation by Educational Experience (VEE)
  - North America: Casualty Actuarial Society, Society of Actuaries and Canadian Institute of Actuaries
- 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**
- Provides formal academic training to elite students who wish to join the AI profession
- Interdisciplinary programme for elite students

**Key Features**
- 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.

**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

Nurtures 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

5-year Double Degree Programme

Programme offered jointly by

Integrated programme offering both

Academic

Professional studies

The Programme

Requires students to complete 300 credits of course units including:

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

Key Features

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

Career Prospects

- 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
**Listen to our Students**

**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.

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**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).

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**Food and Nutritional Science**
Vivian CHOI  
BSc alumni (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.

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**Mathematics**
Yaochen WU  
BSc alumni (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.

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**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.

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**Statistics**
Feiqing HUANG  
BSc alumni (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.

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**Applied AI**
Raina XIN  
BSc(Appplied AI) student  
Recipient of Future Leaders of the Year Scholarships (HKU)
This Applied AI programme helps you find your own passion in AI, with various considerations in Year 3 that you could choose from, and interdisciplinary and all-round training. I am interested in applying AI to medicine and conducting research about building an AI classifier to perform cardiovascular disease early screening. Leading researchers share their insights in the lectures and spared their time for further discussion after class. There are also plenty of internship and research opportunities available to help us gain more experience.

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**Science Entrepreneurship**
Cameron Xavier VAN BREDA  
BSc alumni (major in Molecular Biology and Biotechnology, minor in Science Entrepreneurship)
Co-founder & CEO of Nolli  
2020 Microsoft Imagine Cup World Champion The Minor in Science Entrepreneurship was truly insightful to share ideas and get feedback from teachers and other students that were thinking about innovation from different disciplines. The 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.  

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**Career Prospects**
HKU ranks #10 in QS World Graduate Employability Rankings 2022

Major occupation of HKU Science graduates

51%  Commerce and Industry
19%  Community, Social & Personal Services
24%  Educational institutions
6%  Civil Service

**Some of our graduates’ first employers**

Bloomberg  
BDO  
DBS  
Deutsche Bank  
L’Oreal  
Microsoft  
Morgan Stanley  
PwC  
SGS  
UC SanDiego  
UCLA  
University of Michigan  
University of Oxford  
University of Toronto  
University of Waterloo  
University of Wisconsin-Madison  
Utrecht University  
Virginia Tech  
Xilinx  
Yale University  
York University

Our students pursue further studies in a broad range of science and non-science disciplines at renowned institutions in 2020

28%  Graduates pursued further studies in 2020

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**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 transcribing basic knowledge into industrial 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.

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**Science Master Class**
Clare GUO  
BScMPRes student (majoring in Ecology & Biodiversity)
With various opportunities offered by this programme, I was able to participate in the ecology research work that I have always been interested in. During my first year at HKU, I assisted with research in ants, butterflies and spiders. Through those research experiences, my understanding of ecology and biodiversity deepened, which made me step one closer to my dream to be a researcher. Besides, by learning from the Grand Masters in a series of master tutorials, I acquired fascinating transdisciplinary knowledge and methods of conducting research. Furthermore, inspired by their passion and biodiversity deepened, which made me one step closer to my dream to be a researcher. Besides, by learning from the Grand Masters in a series of master tutorials, I acquired fascinating transdisciplinary knowledge and methods of conducting research. Furthermore, inspired by their passion and the knowledge of the first university student delegation from Hong Kong to attend the Conference of the Parties (COP27).

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**Science Entrepreneurship**
Yaochen WU  
BSc alumni (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.

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**Science Entrepreneurship**
Cameron Xavier VAN BREDA  
BSc alumni (major in Molecular Biology and Biotechnology, minor in Science Entrepreneurship)
Co-founder & CEO of Nolli  
2020 Microsoft Imagine Cup World Champion The Minor in Science Entrepreneurship was truly insightful to share ideas and get feedback from teachers and other students that were thinking about innovation from different disciplines. The 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>
</tr>
</thead>
<tbody>
<tr>
<td>6901 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>6688 BSc&amp;MRes</td>
<td>Level 3</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 3 in 2 subjects*</td>
<td>Level 3 in 2 subjects*</td>
</tr>
<tr>
<td>6858 BSc&amp;LLB</td>
<td>Level 5</td>
<td>Level 4</td>
<td>Level 2</td>
<td>Level 4 in M1/M2</td>
<td>Level 3 in 1 subject</td>
</tr>
<tr>
<td>6729 BSc(ActuarSc)</td>
<td>Level 3</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 4 in M1/M2</td>
<td></td>
</tr>
<tr>
<td>6224 BASc(AppliedAI)</td>
<td>Level 4*</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 3 in 2 subjects*</td>
<td></td>
</tr>
<tr>
<td>6212 BASc</td>
<td>Level 5*</td>
<td>Level 3</td>
<td>Level 2</td>
<td>Level 3 in 2 subjects*</td>
<td></td>
</tr>
</tbody>
</table>

* 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

## HKU Undergraduate Admissions

https://admissions.hku.hk

### HKU Science

- BSc, BSc&MRes, BSc&LLB, BSc(ActuarSc) & BASc(AppliedAI): Faculty of Science
  - [www.scifac.hku.hk/prospective/ug](http://www.scifac.hku.hk/prospective/ug)
  - 3917-2683
  - 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
  - bedbsc@hku.hk

- BASc: Faculty of Social Sciences
  - [www.socsc.hku.hk/basc/](http://www.socsc.hku.hk/basc/)
  - 3917-1212
  - bascoss@hku.hk