Admissions Requirements

**JUPAS Applicants**
Minimum Programme Entrance Requirements:

- **6901 BSc**
- **6119 BEd & BSc**

![Diagram](image)

**Non-JUPAS Applicants**
Students holding non HKDSE qualifications are considered individually.

Useful Information
HKU Undergraduate Admissions
[www.aal.hku.hk/admissions](http://www.aal.hku.hk/admissions)

Contacts for Further Information
For BSc, BSc(ActuarSc) & BASc(Applied AI)
Faculty of Science
[www.scifac.hku.hk](http://www.scifac.hku.hk)
3917-2683
science@hku.hk

For 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

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

**Useful Information**
- **Mathematics**
  - Level 2
- **Chinese Language**
  - Level 3
- **Liberal Studies**
  - Level 2
- **Elective subject**
  - Level 3

**Mathematics**
- Level 4
- Extended Module 1 or 2 in Mathematics

**Chinese Language**
- Level 3

**Liberal Studies**
- Level 2

**Elective subject**
- Level 3

1. Elective subjects can be any Category A subject, one of them must be a Science subject.
2. 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.
NEW INITIATIVES
for Science curricula

Seamless articulation to widely recognised postgraduate programmes
- Taught Postgraduate Programmes at HKU Science
- Master of Science in Biotechnology at Northeastern University
- Doctor of Veterinary Medicine (DVM) at University of Melbourne (UoMelb)

Specialisation and intensive training make experts
- Chemistry (Intensive)
- Ecology & Biodiversity (Intensive)
- Geology (Intensive)
- Molecular Biology & Biotechnology (Intensive)

Articulation Pathways

Quality assured through recognition by international professional bodies
- Chemistry Major
- Ecology & Biodiversity Major
- Molecular Biology & Biotechnology Major

Accreditations

Opening the doors to entrepreneurship
- visualises how training in science bears relevance to the real world

Opening up new perspectives
- 6224 Bachelor of Arts and Sciences (Applied AI)
- 6212 Bachelor of Arts and Sciences

Minor in Science Entrepreneurship

New Interdisciplinary Programmes

Why HKU Science?

High University Rankings
- QS World University Rankings 2019
  - #1 among the universities in Hong Kong
  - #5 among the universities in Asia
  - #25 in the world
- Times Higher Education World University Rankings 2018
  - #1 among the universities in Hong Kong
  - #4 among the universities in Asia
  - #40 in the world

Global Experience
Committed to nurturing students as global citizens
- Targeting at 100% overseas experience by 2022
- Examples of overseas experiences
  - Worldwide exchange studies
  - Overseas Research Fellowships
  - Field trips
  - Summer courses
  - International scientific conferences
  - Internships

International Environment
- About 40% academic staff are from overseas
- The International Student Ranking 2018
  - #22 in the world
  - #1 in Asia
- 14% of professoriate staff are the world’s top 1% scholars
- Top-ranked Scientists (Clarivate Analytics’ Essential Science Indicators 2017)
- Career Prospects
  - Essentially 100% employment rate (inclusive of further studies) in the past decade

Our Departments
- Department of Biological Sciences
- Department of Chemistry
- Department of Earth Sciences
- Department of Mathematics
- Department of Physics
- Department of Statistics & Actuarial Science

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Bachelor of Science BSc

Empowers scientific intellectuals to formulate solutions to society’s challenges

A comprehensive training in science that
- Develops students’ capabilities in quantitative and logical reasoning
- Cultivates students’ ability to tackle novel situations and solve complex problems

The Programme
One entry in the application, with a free choice of 14 Science Majors and 4 Intensive Majors:
- Biochemistry
- Biological Sciences
- Chemistry
- Chemistry (Intensive) 1
- Decision Analytics
- Earth System Science
- Ecology & Biodiversity
- Ecology & Biodiversity (Intensive) 1
- Environmental Science
- Food & Nutritional Science
- Geology 1
- Geology (Intensive)
- Mathematics
- Molecular Biology & Biotechnology
- Molecular Biology & Biotechnology (Intensive) 2
- Physics
- Risk Management
- Statistics

Unique Features
- Tackling novel situations: Nurtures a scientifically literate population to address the global challenges that human faces and make wise decisions informed by scientific understanding
- Career prospects:
  - The Faculty has got 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
  - Our graduates are also preferred by other employers because of their numerical analytical skills and logical thinking

Simple and Flexible
- One entry in application for a choice of 14 Majors and 4 Intensive Majors
- Up to 2 years time to choose a Major
- Flexibility in changing Majors

Key Features of Our BSc Curriculum
1 Major / 2 Majors / Major-Minor / Major-2 Minors
- Students may take a 2nd Major or a Minor or 2nd Minors in Science or non-Science disciplines

Academic Advising System
- One-on-one academic advice

Notes:
1. It follows the Accredited Royal Society of Chemistry Programme
2. It follows the Accredited Royal Society of Biology Programme
3. It follows The Geological Society Accredited Programme

No Quota for Any Science Major

Simple and Flexible
- One entry in application for a choice of 14 Majors and 4 Intensive Majors
- Up to 2 years time to choose a Major
- Flexibility in changing Majors

Intensive Majors

Specialisation and intensive training make experts
- Allow students to specialise in a science discipline with extensive subject knowledge
- Offered alongside with the regular 96-credit Majors
- Equip students who intend to pursue research in science with an adequate depth of their subject knowledge
- Fulfill the accreditation requirements of various royal societies in the UK
- Listed in the transcript
- Having an advantage at job application and when seeking chartered status
- Four accredited Majors are offered at initial stage:
  - Major in Chemistry (Intensive) (144 credits)
  - Major in Ecology & Biodiversity (Intensive) (144 credits)
  - Major in Geology (Intensive) (150 credits)
  - Major in Molecular Biology & Biotechnology (Intensive) (144 credits)

Academic Advising System
- One-on-one academic advice

Curriculum Structure for BSc (Intensive Majors) (240 Credits)
Spanning over 4 years of full-time study

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  - Major in Geology (Intensive) (150 credits)
  - Major in Molecular Biology & Biotechnology (Intensive) (144 credits)
Broadening the horizon of our undergraduate students with respect to entrepreneurship

Bringing students huge insights via critical analysis of the operation of existing enterprises

Offering more competitive edge to our students via connecting their academic knowledge with the real world

• Co-taught by other Faculties such as Faculty of Business and Economics
• Strong emphasis on practical experience:
  > Entrepreneurship Internship
  > Capstone project (e.g. entrepreneurship-related competitions or business analysis of enterprises)
• Mentoring offered by our alumni and others who are entrepreneurs or hold senior positions 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, as well as related courses currently offered by other Faculties

Accreditations Minor in Science Entrepreneurship

Opening the doors to entrepreneurship

This Minor aims at:

Royal Society of Biology, UK
• Both the Ecology & Biodiversity Major and Molecular Biology & Biotechnology Major have been conferred the accreditation
• The Ecology & Biodiversity Major is the first programme of its type 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 and this will help them to:
  > stay up-to-date with what is happening across the life sciences
  > gain additional recognition for their skills and experience
  > develop their professional network and
  > demonstrate their support for the future of biology

Royal Society of Chemistry, UK
• Exclusively for students who wish to specialise in chemistry
• Students completed the RSC accredited Chemistry 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

The Geological Society, UK
• Students completing specified geology courses 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 Geological Society, to recognise their achievements
• Qualification recognised internationally and in Hong Kong, and chartered geologists are regarded as professionally equivalent to chartered engineers

Some highlights of the Minor:

Accreditations Minor in Science

6 7
Articulation Pathways

Seamless articulation to widely recognised postgraduate programmes

To Taught Postgraduate Programmes at HKU Science

- An articulation pathway attaching 6901 Bachelor of Science, 6729 Bachelor of Science in Actuarial Science and 6224 Bachelor of Arts and Sciences in Applied Artificial Intelligence to master programmes at HKU Science
- Provides a convenient channel of specialised training for deepening knowledge in specific fields of science, with guaranteed admission to the taught postgraduate programmes offered by the Faculty to selected outstanding BSc/ BSc(ActuarSc)/ BASc(Applied AI) students
- Upon successful completion in 5/ 5.5 years, students will be able to obtain a BSc/ BSc(ActuarSc)/ BASc(Applied AI) degree (4 years) plus a MSc/ MStat degree (1 year) or MDASC degree (1.5 years). The taught Master Programmes offered include:
  - MSc in the field of Applied Geosciences
  - MSc in the field of Food Safety and Toxicology
  - MSc in the field of Food Industry: Management and Marketing
  - Master of Statistics (MStat)
  - MSc in Environmental Management
  - Master of Data Science (MDASC)
- Application is open to students who have completed year 3, with a CGPA of 3.5 at graduation and fulfillment of the MSc/ MStat/ MDASC admissions requirements
- Students who are awarded the highest amount of scholarship will only need to pay 50% of tuition fee
- There is no quota for the aforementioned articulation pathway except that for Master of Data Science, a maximum of 2 places will be offered each year.

Remarks: the list of TPG programmes for this articulation pathway is subject to change

To the Master of Science in Biotechnology at Northeastern University

- Graduates with a BSc degree from HKU Science with a GPA of 3.2 or above will be eligible for direct admission to the programme
- Admitted students may elect to complete the first year of course work online, and then transfer to Northeastern’s Boston or California campus to complete the remaining studies

About DVM at UoMelb

- The internationally accredited programme allows graduates to find employment as a practising veterinarian in many countries without further training
- Accredited by Australasian Veterinary Boards Council Inc (Australia), American Veterinary Medical Association (USA) and Royal College of Veterinary Surgeons (UK)
- Graduates can register as veterinary surgeons and practise in HK through Veterinary Surgeons Board of Hong Kong
- The UoMelb is a renowned university in the global arena and its DVM programme ranks 15th in Veterinary Science of QS World University Rankings 2018
Diverse Learning Experiences

International Exchange Students

Undergraduate Research Experiences

- Overseas Research Fellowship (ORF)
  - North America
    - University of California
    - University of Chicago
    - Columbia University
    - Johns Hopkins University
    - Stanford University
    - Yale University
  - Europe
    - University of Cambridge
    - Imperial College London
    - University of Oxford

- Summer Research Fellowship (SRF)

- Undergraduate Research Colloquium
  - Final-year projects
  - Directed studies

- Field Trips
  - Examples of field trip destinations:
    - Kenya
    - Thailand
    - USA
    - Australia

- Career Preparation + Internships
  - Career Success Programme
  - Enables students to apply knowledge in the workplace
  - Prepares students for their career
  - Examples of internship opportunities:
    - Government bodies
    - Scientific laboratories
    - Non-government agencies/NGOs
    - Commercial companies
    - Non-government agencies/NGOs
    - Commercial companies

Young Scientist Scheme (YSS)
Early Research Experiences for Outstanding Students in 6901 BSc Programme

YSS participants are guaranteed to go on exchange, visiting or summer study in a top university, including:

- Overseas Research Fellowship (ORF)
- Career Success Programme
- Enables students to apply knowledge in the workplace
- Prepares students for their career
- Examples of internship opportunities:
  - Government bodies
  - Scientific laboratories
  - Non-government agencies/NGOs
  - Commercial companies
  - Non-government agencies/NGOs
  - Commercial companies
- Summer Research Fellowship (SRF)
- A further SRF or an Overseas Research Fellowship (ORF)
- International exchange, visiting or summer study
- Attendance to an international scientific conference
- A research mentor
- Enrollment in the Frontiers of Science Honours Seminar
- Stipends for research activities
- Entrance scholarship

Students in YSS are guaranteed with:

1. Summer Research Fellowship (SRF)
2. A further SRF or an Overseas Research Fellowship (ORF)
3. International exchange, visiting or summer study
4. Attendance to an international scientific conference
5. A research mentor
6. Enrollment in the Frontiers of Science Honours Seminar
7. Stipends for research activities
8. Entrance scholarship

Who are eligible to join YSS?

In 2018, 31 students were admitted to YSS

Non-JUPAS

Selected Non-JUPAS applicants will be invited to enroll in YSS

JUPAS

Best 5 HKDSE
Score of subjects* ≥ 35
- automatically accepted to YSS
- no interview is necessary

* including Category A subjects and M1/M2

Notes:
1. 6901 BSc students not admitted to YSS on entry but show excellent talent afterwards would still have a second chance to enroll in YSS.
2. Students who are not admitted to YSS can still compete for SRF, ORF and/or international exchange during their study.
Bachelor of Arts and Sciences in Applied Artificial Intelligence BASc(Applied AI)

Impacts the world with the limitless power of AI

The Programme
- Highlights AI applications in diverse areas so that students can develop the intellectual capacity essential to meeting new challenges.
- Gives students both fundamental and practical knowledge in the design and construction of intelligent systems so that they can apply their skills in a variety of career settings.
- Supported by a wide range of courses in computer science, geography, mathematics, psychology, statistics, and urban studies which emphasise problem-based learning.
- Nurtures students to transfer interdisciplinary scientific knowledge into a range of integrated applications and technological innovations.

Unique Features
- New option for elite students: Provides formal academic training to elite students who wish to join the AI profession.
- Featured concentrations: AI in technology, AI in business and finance, AI in medicine, AI in smart city, or AI in neurocognitive science.
- Career prospects: Connects the exploding demand of the AI market in diverse areas: science and technology, environmental protection, medical informatics, health care, business, banking, finance, urban development, neurocognitive science, etc.
- Interdisciplinary training: Facilitates a coordinated approach to teaching and learning across different disciplinary fields in collaboration with the Faculties of Engineering, Social Sciences and Architecture.

BASc Curriculum Structure*
- Spanning over 4 years of full-time study

UNIVERSITY EDUCATION
- Language Courses
  - 36 credits

BASc COMMON COURSES
- Horizontals
  - 38 credits

INTERDISCIPLINARY CURRICULUM
- Interdisciplinary Courses
- 96 credits
- Pathways
  - 1. Cultures / Societies
  - 2. Physical World / Biological / Human Sciences
- Interdisciplinary Capstone Course
  - 96 credits

INTERNERSHIP
- 72 credits

ELECTIVES
- 78 credits

*May subject to change

Unique Features
- Interdisciplinary major: Students take disciplinary courses from the 3 Faculties and also elective courses within 2 pathways: (1) Cultures/Societies and (2) Physical World/Biological/Human Sciences.
- Developing intellectual toolkit: Learn how to intertwine knowledge from various disciplines and integrate them together through case studies, capstone learning, and experiences of thought leaders in professions.
- Career prospects: Wide career prospects in government, management consultancy, public relations, banking, public policy, environmental services, museum, heritage or science writing/journalism, and non-governmental organisation work, etc.

Bachelor of Arts and Sciences BASc

Nurtures future global leaders to make changes in interconnected world

The Programme
- An intrinsically integrated programme co-offered by the Faculties of Social Sciences, Arts and Science.
- 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.
- Equips students with social intelligence, creative problem-solving, analytical skills, communication skills, ethical responsibility and interdisciplinary perspective in understanding our world.

Unique Features
- Interdisciplinary major: Students take disciplinary courses from the 3 Faculties and also elective courses within 2 pathways: (1) Cultures/Societies and (2) Physical World/Biological/Human Sciences.
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- Career prospects: Wide career prospects in government, management consultancy, public relations, banking, public policy, environmental services, museum, heritage or science writing/journalism, and non-governmental organisation work, etc.

Social Sciences
- Psychology, sociology, politics, geography, journalism, social work

Arts
- Cultural studies, history, philosophy, language, literature, creative & performing arts

Science
- Physics, chemistry, biology, nutrition, from molecules to cells, ecology, evolution, planet, energy & environment
A gateway to the actuarial profession with internationally-recognised qualifications

The Programme

- Provides specialist academic and professional training to students in actuarial science
- Prepares students for professional examinations to Associateship level
  - UK: Institute and Faculty of Actuaries
  - North America: Casualty Actuarial Society, and Society of Actuaries
- Accredited by professional body, while graduates will be exempted from various professional examinations
  - UK: Institute and Faculty of Actuaries
  - Validation by Educational Experience (VEE) obtained
  - 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

Unique Features

- Specialisation: The ONLY programme of its kind in Hong Kong
- 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: Given Hong Kong’s booming insurance industry and the rapid development of the mainland China market, actuaries enjoy very attractive career prospects. Recent graduates hold positions in major insurance and reinsurance companies, actuarial consulting firms, and investment banks

Bachelor of Education and Bachelor of Science BEd & BSc

Consolidates scientific knowledge through practical experience and teaching in science

The Programme

- 5-year Double Degree Programme
- Offered jointly by the Faculty of Education and the Faculty of Science
- Integrated programme offering both academic and professional studies
- 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

Unique 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 included
- Career prospects:
  - Thorough knowledge of Science subject, broad understanding of educational issues, and high level of 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